

DRINKING WATER SURVEILLANCE PROGRAM

SOUTH PEEL (LAKEVIEW) WATER SUPPLY SYSTEM

ANNUAL REPORT 1990

TD 380 .S68 1992 MOE



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19369

SOUTH PEEL (LAKEVIEW) WATER SUPPLY SYSTEM

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1990

HAZARDOUS CONTAMINANTS

COORDINATION BRANCH

135 ST. CLAIR AVENUE WEST

TORONTO, ONTARIO M4V 1P5

SEPTEMBER 1992



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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

SOUTH PEEL (LAKEVIEW) WATER SUPPLY SYSTEM 1990 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1990, 76 systems were being monitored.

The South Peel (Lakeview) water treatment plant is a conventional treatment plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, taste and odour control, fluoridation and disinfection. Ammonia is added to convert the disinfectant to a combined chlorine residual and sulphur dioxide is used to remove any excess chlorine. This plant has a rated capacity of 437.0 x 1000 m³/day. The South Peel (Lakeview) water treatment plant together with the Lorne Park facility serves a population of approximately 700,000.

Water at the plant and at two locations in the distribution system was sampled for the presence of approximately 180 parameters. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), and organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons, specific pesticides and volatiles). Samples were analyzed for specific pesticides and chlorophenols twice a year in the spring and fall.

Table A is a summary of all results by group.

No known health related guidelines were exceeded.

The South Peel (Lakeview) water treatment plant, for the sample year 1990, produced good quality water and this was maintained in the distribution system.

TABLE A
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE BY SCAN

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE A '.' INDICATES THAT NO SAMPLE WAS TAKEN

	SCAN	RAW TESTS	POSITIVE	%POSITIVE	TREATE TESTS		%POSITIVE	SITE 1 TESTS		%POSITIVE	SITE 2 TESTS		%POSITIVE
	BACTERIOLOGICAL	18	16	88	6	1	16	4	1	25	4	4	100
	CHEMISTRY (FLD)	18	18	100	36	35	97	72	72	100	48	48	100
	CHEMISTRY (LAB)	126	106	84	132	102	77	228	202	88	151	137	90
	METALS	144	62	43	144	50	34	276	124	44	184	74	40
	CHLOROAROMATICS	84	0	0	84	1	. 1	70	0	0	56	. 1	1
6	CHLOROPHENOLS	12	0	0.	12	0	0		•	*			•
	PAH	101	. 0	0	101	0	0	17	0	0	17	0	0
	PESTICIDES & PCB	191	0	0	204	0	0	105	0	0	85	0	.0
3000	PHENOLICS	. 6	1	16	6	2	33	180	# #	•		•	· ,
	SPECIFIC PESTICIDES	57	0	0	57	0	0	5	· , o	0	4	0	0
	VOLATILES	174	0	0	174	24	. 13	- 145	20	13	116	18	15
	y s	938	205		963	217		922	419		665	282	

TOTAL

DRINKING WATER SURVEILLANCE PROGRAM

SOUTH PEEL (LAKEVIEW) WATER SUPPLY SYSTEM 1990 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1990, 76 systems were being monitored.

Appendix A has a full description of the DWSP.

The DWSP was initiated for the South Peel (Lakeview) water treatment plant in the summer of 1984 and was used in the development of the program. Previous annual reports have been published for 1986, 1987, 1988 and 1989.

PLANT DESCRIPTION

The South Peel (Lakeview) water supply system is a conventional treatment plant which treats water from Lake Ontario. The process consists of coagulation, flocculation, sedimentation, filtration, taste and odour control, fluoridation and disinfection. Ammonia is added to convert the disinfectant to a combined chlorine residual and sulphur dioxide is used to remove any excess chlorine. This plant has a rated capacity of 437.0 x 1000 m³/day. The South Peel (Lakeview) water treatment plant together with the Lorne Park facility serves a population of approximately 700,000.

The sample day flows ranged from 209.000 x 1000 m^3/day to 391.000 x 1000 m^3/day .

General plant information is presented in Table 1 and a schematic of plant processes, chemical addition points and sampling locations in Figure 1.

SAMPLING AND ANALYSES

Sample lines in the plant were flushed prior to sampling to ensure that the water obtained was indicative of its origin and not residual water standing in the sample line.

At all distribution system locations two types of samples were obtained, a standing and a free flow. The standing sample consisted of water that had been in the household plumbing and service

connection for a minimum of six hours. These samples were used to make an assessment of the change in the levels of inorganic compounds and metals, due to leaching from, or deposition on, the plumbing system. The only analyses carried out on the standing samples therefore, were General Chemistry and Metals. The free flow sample represented fresh water from the distribution main, since the sample tap was flushed for five minutes prior to sampling.

Attempts were made to capture the same block of water at each sampling point by taking the retention time into consideration. Retention time was calculated by dividing the volume of water between two sampling points by sample day flow. For example, if it was determined that retention time within the plant was five hours, then there would be a five hour interval between the raw and treated sampling. Similarly, if it was estimated that it took approximately one day for the water to travel from the plant to the distribution system site, this site would be sampled one day after the treated water from the plant.

Stringent DWSP sampling protocols were followed to ensure that all samples were taken in a uniform manner (see Appendix B).

Plant operating personnel routinely analyze parameters for process control (Table 2).

Water at the plant and at one location in the distribution system was sampled for the presence of approximately 180 parameters. Parameters were divided into the following groups: bacteriological, inorganic and physical (laboratory chemistry, field chemistry and metals), and organic (chloroaromatics, chlorophenols, pesticides and PCB, phenolics, polyaromatic hydrocarbons, specific pesticides and volatiles). Samples were analyzed for specific pesticides and chlorophenols twice a year in the spring and fall. Laboratory analyses were conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field measurements were recorded on the day of sampling and were entered onto the DWSP database as submitted by plant personnel.

Table 3 contains information on delay time between raw and treated water sampling, flow rate, and treatment chemical dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment laboratory staff and is quantifiable. Trace (<T) denotes that the

level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on Tables 5 and 6. Parameters are listed alphabetically within each scan.

DISCUSSION

GENERAL

Water quality was judged by comparison with the Ontario Drinking Water Objectives publication (ODWOs). When an Ontario Drinking Water Objective (ODWO) was not available, guidelines/limits from other agencies were used. These guidelines were obtained from the Parameter Listing System database.

IN THIS REPORT, DISCUSSION IS LIMITED TO:

- THE TREATED AND DISTRIBUTED WATER;
- ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES; AND
- POSITIVE ORGANIC PARAMETERS DETECTED.

BACTERIOLOGICAL

Guidelines for bacteriological sampling and testing of a supply are developed to maintain a proper supervision of its bacteriological quality. Routine monitoring programs usually require that multiple samples be collected in a given system. Full interpretation of bacteriological quality cannot be made on the basis of single samples.

Standard plate count was the only bacteriological analysis conducted on the treated and distributed water. No results were reported above the guideline.

INORGANIC & PHYSICAL

CHEMISTRY (FIELD)

It is desirable that the temperature of drinking water be less than 15°C. The palatability of water is enhanced by its coolness. A temperature below 15°C will tend to reduce the growth of nuisance

organisms and hence minimize associated taste, colour, odour and corrosion problems. The temperature of the delivered water may increase in the distribution system due to the warming effect of the soil in late summer and fall and/or as a result of higher temperatures in the source water.

Field temperature exceeded the ODWO Maximum Desirable Concentration of 15°C in 2 of 16 treated and distributed water samples with a maximum reported value of 20.0°C.

CHEMISTRY (LAB)

The ODWOs indicate that a hardness level of between 80 and 100 mg/L as calcium carbonate for domestic waters provides an acceptable balance between corrosion and encrustation. Water supplies with a hardness greater than 200 mg/L are considered poor and would possess a tendency to form scale deposits and result in excessive soap consumption.

Hardness exceeded the ODWO Aesthetic or Recommended Operational Guideline of 80-100 mg/L in all 16 treated and distributed water samples with a maximum reported value of 149.1 mg/L.

Total ammonium exceeded the European Economic Community Aesthetic Guideline Level of 0.05 mg/L in 9 of 16 treated and distributed water samples with a maximum reported value of 0.22 mg/L. Anhydrous ammonia is added within the plant process to convert the disinfectant from a free chlorine residual to a longer lasting combined chlorine residual.

METALS

At present, there is no evidence that aluminum is physiologically harmful and no health limit for drinking water has been specified. The measure of aluminum in treated water is important to indicate the efficiency of the treatment process. The ODWOs indicate that a useful guideline is to maintain a residual below 100 ug/L as aluminum in the water leaving the plant, to avoid problems in the distribution system.

Aluminum exceeded the ODWO Aesthetic or Recommended Operational Guideline of 100 ug/L in 5 of 16 treated and distributed water samples with a maximum reported value of 230.0 ug/L.

ORGANIC

CHLOROAROMATICS

Hexachloroethane was reported at positive levels in 2 of 16 treated and distributed water samples with a maximum reported value of 46 ng/L. The United States Environmental Protection Agency has an

Ambient Water Quality Criteria of 1900 ng/L.

The results of the other parameters in the chloroaromatic scan showed that none were detected.

CHLOROPHENOLS

The results of the chlorophenol scan showed that none were detected.

POLYAROMATIC HYDROCARBONS (PAH)

The results of the PAH scan showed that none were detected above trace levels in the treated or distributed water samples.

PESTICIDES & PCB

The results of the PCB scan showed that none were detected.

The results of the regular pesticide scan showed that none were detected above trace levels.

PHENOLICS

Phenolic compounds are present in the aquatic environment as a result of natural and/or industrial processes. The ODWOs recommend, as an operational guideline, that phenolic substances in drinking water not exceed 2.0 ug/L. This limit has been set primarily to prevent undesirable taste and odours, particularly in chlorinated water.

Phenolics exceeded the ODWO Aesthetic or Recommended Operational Guideline of 2 ug/L in 1 of 6 treated water samples with a reported value of 2.8 ug/L.

SPECIFIC PESTICIDES

The results of the specific pesticides scan showed that none were detected.

VOLATILES

The detection of benzene, ethylbenzene, toluene and xylenes at low, trace levels may be a laboratory artifact derived from the analytical methodology. M-xylene and O-xylene were found at positive levels in 1 of the 15 treated and distributed water samples with reported values of 1.3 and 0.75 ug/L respectively. The ODWO Aesthetic Objective for total xylenes is 300 ug/l.

Trihalomethanes (THMs) are produced during the water treatment process and will always occur in chlorinated waters. THMs are comprised of chloroform, chlorodibromomethane and

dichlorobromomethane; bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. Only total THMs results are discussed.

Total THMs were found at positive levels in the 15 treated and distributed water samples analyzed with a maximum level of 45.8 ug/L. This was below the ODWO Maximum Acceptable Concentration of 350 ug/L.

By using ammonia to form a combined chlorine residual, the average trihalomethane levels in this supply are lower than would normally be expected for this raw water source.

CONCLUSIONS

The South Peel (Lakeview) water treatment plant, for the sample year 1990, produced good quality water and this was maintained in the distribution system.

No known health related guidelines were exceeded.

FIGURE 1
SOUTH PEEL (LAKEVIEW) WATER TREATMENT PLANT

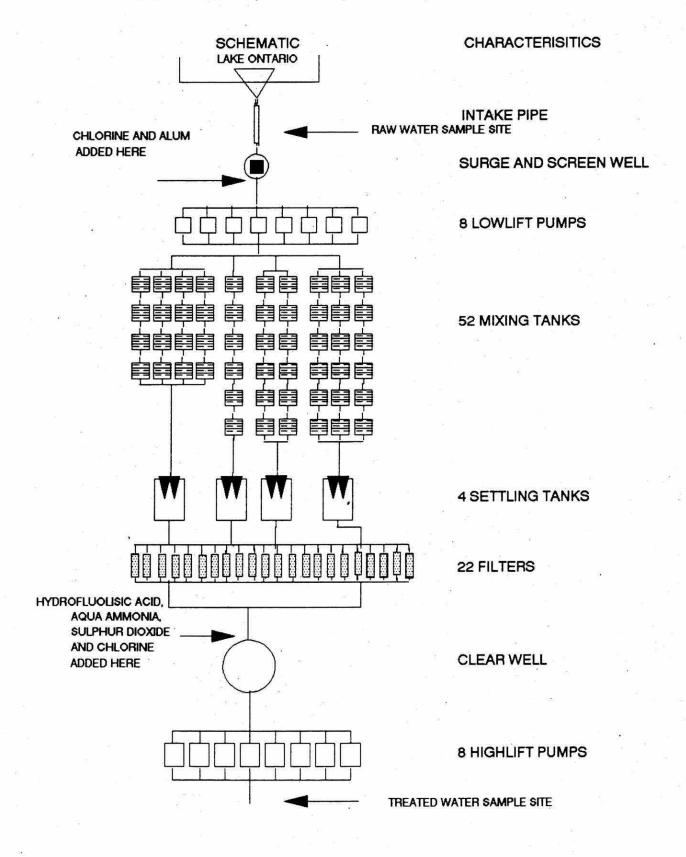


TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM

PLANT GENERAL REPORT

WORKS #:

210000568

PLANT NAME:

SOUTH PEEL (LAKEVIEW) WSS

DISTRICT:

SOUTH PEEL

REGION:

CENTRAL

DISTRICT OFFICER:

J. BUDZ

UTM #:

176163004824350

PLANT SUPERINTENDENT: R. TUFTS

ADDRESS:

920 EAST AVENUE

MISSISSAUGA, ONTARIO

L5E 1W6

(416) 278-8471

MUNICIPALITY:

PEEL

AUTHORITY:

PROVINCIAL

PLANT INFORMATION

PLANT VOLUME:

(X 1000 M3)

DESIGN CAPACITY:

(X 1000 M3/DAY)

RATED CAPACITY:

437.000 (X 1000 M3/DAY)

MUNICIPALITY

POPULATION

BRAMPTON MISSISSAUGA 254,000 446,000

TABLE 2 DRINKING WATER SURVEILLANCE PROGRAM IN-PLANT MONITORING

PARAMETER	LOCATION	FREQUENCY
PARAMETER	LOCATION	
COMBINED CHLORINE RESIDUAL	AFTER FILTERS	EVERY 2 HOURS
	TREATED WATER	EVERY 2 HOURS
FREE CHLORINE RESIDUAL	AFTER FILTERS	EVERY 2 HOURS
	TREATED WATER	EVERY 2 HOURS
TOTAL CHLORINE RESIDUAL	AFTER FILTERS	EVERY 2 HOURS
	TREATED WATER	EVERY 2 HOURS
FLUORIDE	RAW WATER IN LAB	24HR
250 U	TREATED WATER	CONTINUOUS
AMMONIA TEST	RAW WATER	EVERY 2 HOURS
5	TREATED WATER	EVERY 2 HOURS
PH	AFTER DISINFECTION	CONTINUOUS
2 ° «	RAW WATER	EVERY 2 HOURS
x 200	TREATED WATER	6HRL
TEMPERATURE	RAW WATER	CONTINUOUS
TURBIDITY	TREATED WATER IN LAB	CONTINUOUS
Para se	SETTLED WATER IN LAB	CONTINUOUS
	RAW WATER IN LAB	CONTINUOUS
san a	RAW WATER	EVERY 2 HOURS
	AFTER SETTLING TANKS	2 HR
8 4 6	TREATED WATER	2 HR

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS SAMPLE DAY CONDITIONS FOR 1990

			TREATMENT CHEMICAL	(MG/L)				
			PRE CHLORINATION	COAGULATION	FLUORIDATION	TASTE & ODOUR	DECHLORINATION	
DATE	DELAY * TIME(HRS)	FLOW (1000M3)	CHLORINE	ALUM LIQUID	HYDROFLUOSILICIC ACID	AMMONIUM ANHYDROUS	SULPHUR DIOXIDE	
JAN 04	3.05	209.000	2.56	5.00	1.31	.19	.23	
MAR 07	3.05	209.116	3.07	5.00	1.06	.17	-22	
MAY 09	2.34	272.760	3.60	7.57	1.23	- 13	.07	
JUL 05	2.17	391.000	3.94	3.00	1.02	.21	.30	
SEP 06	3.47	245.484	2.87	1.50	1.08	- 15	. 19	
NOV 07	3.08	218.208	2.18	4.67	1.23	.25	.17	

^{*} THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS
SUMMARY TABLE OF RESULTS (1990)

	RAW			TREATED			SITE 1			SITE 2	22	
SCAN PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL PO	SITIVE T	RACE	TOTAL PO	SITIVE T	RACE	TOTAL P	OSITIVE	TRACE
BACTERIOLOGICAL		\$										
FECAL COLIFORM MF	. 6	5	0							55		
STANDED PLATE CHT MF				6	i	ō	į	i	ò	4	4	ō
TOTAL COLIFORM MF	6			•	•	1			ĕ			•
T COLIFORM BCKGRD MF	6	6	0	•	5 5	1		Y/•	•		•	
*TOTAL SCAN BACTERIOL	OGICAL					2.00						
	18	. 16	0	6.	1	0	4	1	0	4	4	0
								11 (81		81		
CHEMISTRY (FLD)												
FLD CHLORINE (COMB)	9		*)	6	6	Ō	12	12	0	8	8	0
FLD CHLORINE FREE	•	(in)		6	. 5	0	12	12	0	8	. 8	0
FLD CHLORINE (TOTAL) FLD PH	;	:	ō	6	6	0	12 12	12 12	0	8 8	8 8	. 0
FLD TEMPERATURE	6	6	0	6	6	0	12	12	0	8	8	Ö
FLD TURBIDITY	6	6	ő	6	6	Ö	12	12	ō	. 8	8	Ö
4-4												
*TOTAL SCAN CHEMISTRY	(FLD) 18	18	0	36	35	0	72	72	0	48	48	0
		10		30	. 33	Ů	12	- 55		40		
		• • • • • • • • •	• • • • • •	• • • • • • • •		••••						
CHEMISTRY (LAB)											30	2 (%) 320
ALKALINITY	5	5	0	6	6	0	12	12	0	8	8	0
CALCIUM	. 6	6	0	6	. 6	0	12	12	0	8	8	0
CYANIDE	6		200									
CHLORIDE	0	0	0	6	0	0						•
	6	6	0	6	6	ō	12	. 12	ò	8	8	ö
COLOUR	6 6	6	0	6 6	6	0 5	12	. 12 . 0	12	8	0	8
COLOUR CONDUCTIVITY	6	6 0 5	0 6 0	6 6 6	6 0 6	0 5 0	12 12	. 12 0 12	12 0	8	0 8	8
COLOUR CONDUCTIVITY DISS ORG CARBON	6 6	6 0 5 6	0 6 0 0	6 6 6	6 0 6 6	0 5 0	12 12 12	12 0 12 12	12 0 0	8 8 . 8	0 8 8	8 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE	6 6	6 0 5 6	0 6 0 0	6 6 6 6	6 0 6 6	0 5 0 0	12 12 12 12	12 0 12 12 12	12 0 0 0	8 8 8	0 8 8 8	8 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS	6 6	6 0 5 6 6	0 6 0 0 0	6 6 6 6	6 0 6 6 6	0 5 0 0	12 12 12 12 12	12 0 12 12 12 12	12 0 0 0 0	8 8 8 8	0 8 8 8	8 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL	6 6 5 6 6 6	6 0 5 6 6 6 5	0 6 0 0 0	6 6 6 6 6	6 6 6 6	0 5 0 0 0	12 12 12 12 12 12	12 0 12 12 12 12 12	12 0 0 0 0	8 8 8 8 8	0 8 8 8 8	8 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX	6 6	6 0 5 6 6 6 5 5	0 6 0 0 0 0	6 6 6 6 6 6	6 6 6 6 6	0 5 0 0 0 0 0 0	12 12 12 12 12 12 12	12 0 12 12 12 12 12 12	12 0 0 0 0	8 8 8 8 8 8	0 8 8 8 8 8	8 0 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM	6 6 5 6 6 6	6 0 5 6 6 6 5	0 6 0 0 0	6 6 6 6 6 6	606666666	0 5 0 0 0	12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12	12 0 0 0 0	8 8 8 8 8 8 7 8	0 8 8 8 8	8 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX	6 6 5 6 6 6	6 0 5 6 6 6 5 5	0 6 0 0 0 0 0 0 0	6 6 6 6 6 6	6 6 6 6 6	0 5 0 0 0 0 0 0 0	12 12 12 12 12 12 12	12 0 12 12 12 12 12 12	12 0 0 0 0 0	8 8 8 8 8 8	0 8 8 8 8 8 7 8	8 0 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM	6 6 5 6 6 6	6 0 5 6 6 6 5 5 6	060000000000000000000000000000000000000	6 6 6 6 6 6	6 6 6 6 6 6	0 5 0 0 0 0 0	12 12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12 12	12 0 0 0 0 0 0 0 0	8 8 8 8 8 8 7 8 8	0 8 8 8 8 8 7 8	8 0 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM AMMONIUM TOTAL	6 6 5 6 6 6	6 0 5 6 6 6 5 5 6	060000000000000000000000000000000000000	6 6 6 6 6 6 6 6 6	6 6 6 6 6 5	0 5 0 0 0 0 0 0 0 0 0 0	12 12 12 12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12 12 12 12 12	12 0 0 0 0 0 0 0 0	8 8 8 8 8 7 8 8	0 8 8 8 8 8 7 8	8 0 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM AMMONIUM TOTAL NITRITE TOTAL NITRATES NITROGEN TOT KJELD	66566666665	6 0 5 6 6 6 6 5 5 6 6 6 5 5 6 6 6 5 5 6 6 5 5 6 6 6 5 5 6 6 5 5 6 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 5 6 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 6 5 5 5 5 6 5	060000000000000000000000000000000000000	6 6 6 6 6 6 6 6 6 6 6 6	6 0 6 6 6 6 6 6 6 5 0 6 6	050000000000000000000000000000000000000	12 12 12 12 12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12 12 12 12 12 12	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 7 8 8 8 8 8 8	0 8 8 8 8 8 7 8 8 6 4 8 8	8 0 0 0 0 0 0 0 0 1 4 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM AMMONIUM TOTAL NITRITE TOTAL NITRATES NITROGEN TOT KJELD PH	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 0 5 6 6 6 6 5 5 6 6 6 6 5 5 6 6 6 6 6	060000000000000000000000000000000000000	6 6 6 6 6 6 6 6 6 6 6	6 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	05000000006000	12 12 12 12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12 12 12 12 12	12 0 0 0 0 0 0 0 0 0 2 10 0	8 8 8 8 8 7 8 8 8 8 8	0 8 8 8 8 8 7 8 8 6 4 8	8 0 0 0 0 0 0 0 0 1 4 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM AMMONIUM TOTAL NITRITE TOTAL NITRATES NITROGEN TOT KJELD PH PHOSPHORUS FIL REACT	66566665566665556	6 0 5 6 6 6 6 5 5 6 6 6 5 5 6 6 5 5 1 6 1 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 6 6 6 6 6 6 6 6 6 6	6 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	050000000060004	12 12 12 12 12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12 12 12 12 12 12	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 7 8 8 8 8 8 8	0 8 8 8 8 8 7 8 8 6 4 8 8	8 0 0 0 0 0 0 0 0 1 4 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM AMMONIUM TOTAL NITRITE TOTAL NITRATES NITROGEN TOT KJELD PH PHOSPHORUS FIL REACT PHOSPHORUS TOTAL	6656666655665	6 0 5 5 6 6 6 5 5 6 6 5 5 5 1 5	060000000000000000000000000000000000000	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	606666665066610	0500000000600045	12 12 12 12 12 12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12 12 10 1 12 12 12	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 8 8 8 8 8 7 8 8 6 4 8 8 8 8 8	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM AMMONIUM TOTAL NITRITE TOTAL NITRATES NITROGEN TOT KJELD PH PHOSPHORUS FIL REACT	66566665566665556	6 0 5 6 6 6 6 5 5 6 6 6 5 5 6 6 5 5 1 6 1 7 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6 6 6 6 6 6 6 6 6 6 6 6	6 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	050000000060004	12 12 12 12 12 12 12 12 12 12 12 12 12	12 0 12 12 12 12 12 12 12 12 10 1 12 12	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 7 8 8 8 8 8 8	0 8 8 8 8 8 7 8 8 6 4 8 8	8 0 0 0 0 0 0 0 0 1 4 0 0
COLOUR CONDUCTIVITY DISS ORG CARBON FLUORIDE HARDNESS IONCAL LANGELIERS INDEX MAGNESIUM SODIUM AMMONIUM TOTAL NITRITE TOTAL NITRATES NITROGEN TOT KJELD PH PHOSPHORUS FIL REACT PHOSPHORUS TOTAL SULPHATE TURBIDITY	6656666566655666	6 0 5 5 6 6 6 5 5 6 6 5 5 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 5 6 6 5 6 6 5 6 6 6 5 6	060000000000000000000000000000000000000	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	60666666666106	05000000006000450	12 12 12 12 12 12 12 12 12 12 12 12 12 1	12 0 12 12 12 12 12 12 12 12 10 1 12 12 12	12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 8 8 8 8 8 8 6 4 8 8 8 8 8 8 8 8 8 8 8 8	800000000000000000000000000000000000000
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TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS
SUMMARY TABLE OF RESULTS (1990)

NETALES	SCAN	RAW			TREATE	ED		SITE 1	54.		SITE 2	2 .	
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TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS

SUMMARY TABLE OF RESULTS (1990)

	RAW			TREATED			SITE 1		SITE	2	
SCAN PARAMETER	TOTAL	POSITIVE TR	ACE	TOTAL POS	ITIVE TRAC	E	TOTAL POSITI	VE TRACE	TOTAL	POSITIVE	TRACE
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CHLOROPHENOLS			į.				9 av				i a
234 TRICHLOROPHENOL	2	0	0	2	0	0	18			-	
2345 T-CHLOROPHENOL		Ö	Ö	2		0	V		3 18 €8	. 9∑	
2356 T-CHLOROPHENOL	2		Ö	2		0	2 0		17.11 · 1	1 = 01	5.
245-TRICHLOROPHENOL	2	ő	ő	2		0		* * *	1020	345	740
246-TRICHLOROPHENOL	2	ŏ	ŏ	2	- 5	Ö	N	B * S	1/4		100
PENTACHLOROPHENOL	2	ŏ	ŏ	Ž.		Ď			12	450	(3) (4)
	4000	~ ,			n	8			(SE)		
*TOTAL SCAN CHLOROPHE	NOLS 12	0	0	12	0	0	0	0 0	0	0	0
								8		** _ X***	
PAH				8 9 n				•			
PHENANTHRENE	6	0	0	6	. 0	0	1	0 0	1	0	0
ANTHRACENE	6	0	0	6	. 0	0	1	0 0	1	0	0
FLUORANTHENE	. 6	0	0	6 .	0	0	1	0 0	1	0	0
PYRENE	6	0	0	6	0	0	1	0 0	. 1	0	0
BENZO(A)ANTHRACENE	6	0	0	6	0	0	- 1	0 0	1	0	0
CHRYSENE	6	. 0	0	6	0	0	1	0 0	1	0	0
DIMETH. BENZ(A)ANTHR	5	0	0	5	0	0	1	0 0	1	0	0
BENZO(E) PYRENE	6	0	0	6	0	0	1	0 0	1	0	0
BENZO(B) FLUORANTHEN	6	0	0	6	0	0	1	0 0	1	0	0
PERYLENE	6	0 .	0	6	0	0	1	0 0	- 1	0	0
BENZO(K) FLUORANTHEN	6	0	0	6	· 0	1	1	0 0	1	0	0
BENZO(A) PYRENE	6	0	0	6	0	ס	1	0 0	1	. 0	0
BENZO(G,H,I) PERYLEN	6	0	0	6	0	0	1	0 0	. 1	0	0
DIBENZO(A, H) ANTHRAC	6	0	0	6	. 0)	1 /	0 0	1	0	0
INDENO(1,2,3-C,D) PY	6	0	0	6	0)	1	0 0	1	0	0
BENZO(B) CHRYSENE	6	0	0	6	0)	1	0 0	1	0	0
CORONENE	6	. 0	0	6	0)	1	0 0	1	0	0
*TOTAL SCAN PAH							5 y_ 2				34
9	101	0	0	101	0	1	17	0 0	17	. 0	Ó
						· · · · ·					7-7
PESTICIDES & PCB				*//							
ALDRIN	6	0	0	6	0 ()	5	0 0	4	0	0
ALPHA BHC	6	0	6	6		5	5	0 4	4	0	4
BETA BHC	6	Ö		6)	5	0 0	4	. 0	0
LINDANE	6	0	0 2 0	. 6			5	0 0	4	0	1
ALPHA CHLORDANE	6	0	0	6		1	5	0 0	4	0	0

TABLE 4
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS
SUMMARY TABLE OF RESULTS (1990)

		RAW			TREAT	ED .		SITE 1			SITE	2	7.97	
	SCAN PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRAC	Έ
	GAMMA CHLORDANE	6	0	0	6	0	0	5	0	0	4			0
	DIELDRIN	6			6	Ö	ō	5	Ŏ	0	4	Õ		0
	METHOXYCHLOR	6			6	ŏ	Ō	5	Ō	Ō	4	Ō		0
	ENDOSULFAN 1	6	. 0	0	6	0	0	. 5	0	0	4	0	E =	0
	ENDOSULFAN II	6	. 0	0	6	0	0	5	0	0	4	0		0
	ENDRIN	6	. 0	0	6	0	0	5	0	0	- 4	0	ĺ	0
	ENDOSULFAN SULPHATE	6	0	0	6	0	0	5	0	0	4	0	Ě	0
	HEPTACHLOR EPOXIDE	6	0	0	6	0	0	5	0	. 0	4	. 0		0
*	HEPTACHLOR	6	0	0	6	0	0	- 5	0	0	4	. 0	E =	0
	MIREX	6	0	0	6	0	0	5	0	0	4	0		0
	OXYCHLORDANE	6	0	0	6	0	0	5	0	0	4	0		0
	OPDDT	6	. 0	0	6	0	0	5	. 0	0	. 4	0		0
	PCB	6	0	0	6	0	0	5	0	0	4	0		0
	DDD	6	0	0	6	0	0	5	0	0	4	0		0
	PPDDE .	6	0	0	6	0	0	5	. 0	0	4	0		0
	PPDDT	6	0	0	6	0	.0	5	. 0	0	4	0		0
	AMETRINE	5	0	0	6	0	0							
	ATRAZINE	5	. 0	. 5	6	0	2	175 186	20 20					8
	ATRATONE	5	. 0	0	6	0	0	a -				2		2
	CYANAZINE (BLADEX)	5	0	0	. 6	0	0		77 ASS		2			
	DESETHYLATRAZINE	5	0	. 0	. 6	. 0	0	-			20 ·	ě.		
	D-ETHYL SIMAZINE	4	0	0	5	0	0	300	1.00	111 181		- 0		
	PROMETONE	5	0	0	. 6	0	-0.	(X	11 72	8.	-			-
	PROPAZINE	5	0	0	6	0	0	620	1725	18		11 8		
	PROMETRYNE	5	Ö	0	6	O	0	Ø.	Y 2	- 7	- S	V 11 8		8 2
	METRIBUZIN (SENCOR)	5	0	0	6	0	0	350 E	1050 1050	- AR	150	2		2
	SIMAZINE	5	0	0	6	. 0	Ö	1 187	31			n	- 23	<u>.</u>
	ALACHLOR (LASSO)	5	0	0	6	. 0	0		E	0.000		. 3		
	METOLACHLOR	5	0	0	6	0	0			0.00				
	HEXACLCYCLOPENTADIEN	1	0	0	1	. 0	0	0	0-	0	1	0	. 3	0
	******* COAN DECTIONE		■ 69						72					
	*TOTAL SCAN PESTICIDES	191	s 0	10	204	0	9	105	0	4	85	0		5
						9								
	PHENOLICS										*			
	PHENOLICS	6	1	3	6	2	3		•	- es.	*			•
	*TOTAL SCAN PHENOLICS	270												
8		6	1	3	6	. 2	3	0	. 0	0	0	0	9	0
		yes m e				8		. •	•				4	
	***************************************													•••
	SPECIFIC PESTICIDES					W.								
	TOXAPHENE	6	0	0	6	0	. 0	5 .	.0	0	4	0		0
	2,4,5-T	2	Ō	Ō	2	Ō	Õ		ų .	15			97	_
	2,4-D	2	Ō	Ō	2	ō	Ō	8.5	11 (20)	15 - 07		161.190		=i 20
	2,4-DB	2	ŏ	Ō	2	- 0	ő	5				928		<u>.</u>
	2,4 D PROPIONIC ACID	2	ō	ō	2	ō	ő		(2 *)			:		26 26
	DICAMBA	ī	ő	ŏ	ī	Ŏ	ő		F	2 % S		(#) (%)		10 25
	PICHLORAM	Ö	Ŏ	Ŏ	Ó	Õ	ő	*	:50	ien 	3.			T:
	SILVEX	2	ŏ	ŏ	2	Ö	ő			(*) (*)				•
	DIAZINON	2	ŏ	ŏ	ž	ő	0	•	Dec.	9 .0 00	•	(a)		•
	DICHLOROVOS	2	ō	Ŏ	ž	ŏ	ō	12	***			7 m		:
	CHLORPYRIFOS	2	ō	ō	2	ŏ	ŏ				2			
	ETHION	ž	ŏ	. 0	2	ŏ	Ŏ	1.50 A 1.50		#20 %	#	•	e	
		0.000		1 68		×	500	1.750	- 100	15.1	17/	170		0.0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS
SUMMARY TABLE OF RESULTS (1990)

	RAW -			TREAT	ED		SITE 1			SITE	2	
CAN ARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL I	POSITIVE	TRACE	TOTAL	POSITIVE	TRACI
ZINPHOS-METHYL	0	0	0	0	0	0						
ALATHION	2	0	0	2	0	0	((*)				:•	
EVINPHOS	2	0	0	- 2	0	0	1882	***	196			
THYL PARATHION	2	0	0	2	0	0	•		196	•		
THYLTRITHION	2	0	0	2	0	0	1.	•)			•	
RATHION	2	0	0	. 2	0	0	(•	•	(*)			1 1
HORATE	2	- 0	0	2	. 0	0		•	*1	•		
LDAN	2	0	0	2	0	0	((●)	•				
ONNEL	2	0	0	2	0	0	:•:	•	(*)		> 	
INOCARB	0	0	. 0	0	0	0	(10)	•	•			
ENONYL	0	0	0	0	0	- 0	•	•				
JX	0	0	0	0	0	0		•	₩.V	•		
ARBOFURAN	2	0	. 0	2	0	0		3	- 3			
ICP	2	.0	. 0	2	0	0	•	•				
ALLATE	2	.0	0	2	0	0					•	
PTAM	2	0	0	2	0	- 0	5 9 8			2.		
PC	2	0	0	2	0	0	1,000	•	•			
ROPOXUR	2	0	0	2	. 0	0	/ (*)		= *	25	(*)	
ARBARYL	2	0	0	2	0	0	•	*	*		* *	
TYLATE	2	0	0	2	0	. 0			***		•	
TOTAL SCAN SPECIFIC P	ESTICI 57	DES 0	0	57	. 0	0	5	0	0	4	0	
DLATILES	100											
NZENE	- 6	0	1	6	0	1	5	0	2	4	0	
DLUENE	6	0	i	6	ő	ż	5	ŏ	3	4	ő	
HYLBENZENE	6	Õ	ò	- 6	Ö	2	5	Ô	2	4	o	
XYLENE	6	Õ	Ö	6	Ö	0	5	Ô	ō	Z	n	
XYLENE	6	Õ	ŏ	6	ŏ	0	5	ñ	Ô	Ž	1	
XYLENE	6		Ö.	6	Õ	0	5	Õ	Ö	Ä	i	
YRENE	6	ŏ	ő	6	ō	1	5	ŏ	2	Ĺ	ď	
1 DICHLOROETHYLENE	6	Õ	Ö	6	ŏ	ó	5	. 0	ō	4	ŏ	
THYLENE CHLORIDE	6	Ď	ō	6	ŏ	ō	5	ñ	ŏ	4	ō	
,2DICHLOROETHYLENE	6	ŏ	ŏ	6	ő	ŏ	5	ň	ő	2	ő	
1 DICHLOROETHANE	6	Ŏ	ō	6	ŏ	Ö	5	ő	ŏ	7	- 0	
LOROFORM	6	ŏ	Ö	6	6	ŏ	5	5	ŏ	7	4	
1, TRICHLOROETHANE	6	ŏ	ŏ	6	Õ	ŏ	5	ő	1	ž	Ō	
2 DICHLOROETHANE	6	Õ	ŏ	6	Õ	ŏ	5	Õ	ò	7	ő	
RBON TETRACHLORIDE	6	Ö	ő	- 6	ő	ő	5	ñ	1	4	ŏ	
2 DICHLOROPROPANE	6	ŏ	ő	6	ŏ	Õ	5	ŏ	Ó	ž	ő	
CICHLOROETHYLENE	6	ñ	0	6	· ñ	ñ	5	ñ	ñ	i	ň	
CHLOROBROMOMETHANE	6	Ŏ	ŏ	6	6	ŏ	5	5	ŏ	4	4	
2 TRICHLOROETHANE	6	Ŏ	ŏ	6	Ö	ŏ	5	ő	ŏ	4	Ö	
LOROD I BROMOMETHANE	6	Ŏ	Õ	6	6	ŏ	5	5	ŏ	4	4	
CHLOROETHYLENE	6	Ö	ŏ	6	ō	ŏ	5	ō	1	4	Ó	
OMOFORM	6	ŏ	ŏ	6	ŏ	6	5	ŏ	5	4	ō	
22 T-CHLOROETHANE	6	ŏ	ŏ	. 6	ő	ŏ	5	ő	ő	4	Ŏ	
LOROBENZENE	6	ŏ	ō	6	. 0	ŏ	5	ō	ŏ	4	0	
4 DICHLOROBENZENE	6	ŏ	Ö	6	Ö	ŏ	5	ŏ	3	4	ő	
3 DICHLOROBENZENE	6	Ö	ŏ	6	ő	ŏ	5	ŏ	ő	4	ő	
2 DICHLOROBENZENE	6	ŏ	. 0	6	0	ő	5	ő	ŏ	4	ő	
HLYENE DIBROMIDE	6	ŏ	0	6	ő	ŏ	5	ŏ	ŏ	4	ŏ	
TL TRIHALOMETHANES	6	ő	Ö	6	6	ő	5	5	ŏ	4	4	
OTAL SCAN VOLATILES		a **										
OTAL GROUP ORGANIC	174	0	2	174	24	12	145	20	20	116	18	1

KEY TO TABLE 5 and 6

- ONTARIO DRINKING WATER OBJECTIVES (ODWO)
 - 1. Maximum Acceptable Concentration (MAC)
 - 1+. MAC for Total Trihalomethanes
 - Interim Maximum Acceptable Concentration (IMAC)
 Aesthetic Objective (AO)
 AO for Total Xylenes

 - 4. Recommended Operational Guideline
- HEALTH & WELFARE CANADA (H&W)
 - 1. Maximum Acceptable Concentration (MAC)
 - 2. Proposed MAC

 - 3. Interim MAC 4. Aesthetic Objective (AO)
- WORLD HEALTH ORGANIZATION (WHO) C
 - Guideline Value (GV)
 Tentative GV

 - 3. Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
 - 1. Maximum Contaminant Level (MCL)
 - 2. Suggested No-Adverse Effect Level (SNAEL)

 - 3. Lifetime Health Advisory
 4. EPA Ambient Water Quality Criteria
 4T. EPA Ambient Water Quality Criteria for Total PAH
- EUROPEAN ECONOMIC COMMUNITY (EEC)
 - 1. Health Related Guideline Level
 - 2. Aesthetic Guideline Level
 - Maximum Admissable Concentration (MADC)
- CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE G
- NEW YORK STATE AMBIENT WATER GUIDELINE
- NONE AVAILABLE

LABORATORY RESULTS, REMARK DESCRIPTIONS

No Sample Taken BDL Below Minimum Measurement Amount Greater Than Detection Limit But Not Confident <T (SEE INTERPRETATION OF RESULTS ABOVE) Results Are Greater Than The Upper Limit <=> Approximate Result No Data: Contamination Suspected !CS No Data: Sample Incorrectly Labelled !IL No Data: Insufficient Sample ! 15 ! IV No Data: Inverted Septum !LA No Data: Laboratory Accident !LD No Data: Test Queued After Sample Discarded No Data: No Authorization To Perform Reanalysis ! NA No Data: No Procedure INP !NR No Data: Sample Not Received No Data: Obscured Plate ! OP ! QU No Data: Quality Control Unacceptable !PE No Data: Procedural Error - Sample Discarded No Data: Sample pH Outside Valid Range !PH !RE No Data: Received Empty !RO No Data: See Attached Report (no numeric results) No Data: Sample Missing ! SM No Data: Send Separate Sample Properly Preserved IUI No Data: Indeterminant Interference No Data: Time Expired !TX Approximate, Total Count Exceeded 300 Colonies A3C Additional Peak, Large, Not Priority Pollutant APL APS Additional Peak, Less Than, Not Priority Pollutant CIC Possible Contamination, Improper Cap CRO Calculated Result Only PPS Test Performed On Preserved Sample RMP P and M-Xylene Not Separated RRV Rerun Verification RVU Reported Value Unusual

Several Peaks, Small, Not Priority Pollutant

SPS

UCR	Unreliable: Could Not Confirm By Reanalysis
UCS	Unreliable: Contamination Suspected
UIN	Unreliable: Indeterminate Interference
XP	Positive After X Number Of Hours
T#	(TO6) Result Taken After # Hours

WATER TREATMENT PLANT

	RAW			TREATED			SITE 1					SIT	E 2				
						20	STANDI	NG		FREE FLOW		ST	AND I NG		F	REE FL	.OW
		BAC	TERIOLOG	ICAL													
ECAL C	COLIFORM M						DET'N LIM	IT =)	GU	IDELI	NE = 0 (A1)		-	2 2	
JAN		12	3e:		•						/T			**			
MAR		BOL									200 C						2.60
MAY		4		990				8		* 10 10							140
JUL		7			20 A			8	(e)					8			120
SEP	(# 00	29			95/0 62			₹ 2						-		16	0.00
NOV		17			*:						•			• .		24	
FANDRD	PLATE CN	T MF	(COUNT/M	L)			DET'N LIM	IT = ()	GU	DELIN	IE = 500/MI	(A3)				
JAN																	
MAR		•			7.7	<=>		C -			3						16
					-	<=>					0 <=>			•		187	18
MAY		•				<=>		1.9		44	0			•		35	
JUL		•			60						•			*			11
SEP		•				<=>		5,€3			1 <=>	ř.					
NOV	-	•	ezitinos resou institute armos		3	<=>		s 200			1 <=>	8)			736		19
TAL C	OLIFORM M	F (CT,	/100ML)				DET'N LIM	IT = ()	GU	DELIN	E = 5/100	IL(A1)				
JAN		110			H II						y.		(t f)				
MAR		100			292			•			S			•			
MAY		90 <	->					(
JUL		150			7.2						•			.#4			*
SEP		180			11.9			•			•			(* :			
NOV		180	2)		800						•			(4)			
					• • • • • • • • • • • • • • • • • • • •									• 			
COLIF	ORM BCKGR	MF	CT/100ML	-)			DET'N LIM	IT = 0	<u>.</u>	GU1	DELIN	E = N/A					
JAN		540			1				9		E			224			NO _E
MAR		24			655 020			(3 0)			•			5. ≥= 1978			±
MAY		200			75 35			5 .9 77			₹ ¥C						92.20
JUL	130									0	•			•			
SEP		000			•			(**)			•						, •
NOV					100			; :€((*			.			30.83
NUV	16	500			20.00			122.1						a. 5 0:			42

WATER TREATMENT PLANT

R/	AV , '	TREATED	SITE 1	10 (4)	SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	CHEMIST	TRY (FLD)		-		
LD CHLOR	INE (COMB) (MG/		DET'N LIMIT = 0	GUIDELINE = N/A	N .	
JAN		.880	.200	.400	.200	.300
MAR	***	.950	.300	.400	.500	.300
MAY	-	1.000	.050	.100	3	No
JUL		.700	.050	.200	.200	.300
SEP		.350	.100	.600		
NOV	•	1,000	.100	.100	.500	.700
FLD CHLOR	INE FREE (MG/L)	DET'N LIMIT = 0	GUIDELINE = N/A		
JAN		.100	.100	.100	.100	.300
MAR		.050	.100	.100	.100	.400
MAY	•	.100	.100	.100	. 199	7 8 30 40
				.100	.100	.200
JUL	•	.300	.250		.100	.200
SEP		1.400	.200	.100	100	100
NOV		.000	.200	.200	.100	.100
FLD CHLORI	INE (TOTAL) (MG/	/L)	DET'N LIMIT = 0	GUIDELINE = N/A		
JAN		.980	.300	.500	.300	.600
MAR		1.000	.400	.500	.600	.700
MAY .		1.100	.150	.200	a 2	
JUL	•	1.000	.300	.300	.300	.500
SEP		1.750	.300	.700	6 6	
NOV	¥ .	1.000	.300	.300	600	.800
FLD PH (DA	MNSLESS)		DET'N LIMIT = N/A	GUIDELINE = 6.	5-8.5(A4)	1 gk
JAN	7.880	7.440	7.400	7.400	7.600	7.600
MAR	7.500	7.100	7.500	7.300	7.600	7.400
MAY	8.100	7.200	7.400	7.200	7777	92
JUL	7.800	7.010	7.400	7.200	7.400	7.400
SEP	7.750	7.400	7.500	7.500		
NOV	8.000	7.700	7.400	7.400	7.600	7.600
FLD TEMPER	RATURE (DEG.C)	DET'N LIMIT = N/A	GUIDELINE = 15	(A3)	
JAN	7.000	7.000	17,000	6.000	12.000	5.000
MAR	2.500	2.000	16.000	4.000	10.000	4.000
MAY	7.500	7.000	17.000	9.000		
JUL	13.000	13.000	18.000	13.000	15.000	12.000
SEP	20.000	20.000	22.500	19.000		
NOV	9.000	8.000	18.500	11.500	16.000	11.000
LD TURBIO	OITY (FTU)	DET'N LIMIT = N/A	GUIDELINE = 1	(A1)	
JAN	4.100	.220	.390	.340	.320	.240
MAR -		.130	.170	.140	.150	.180
	5.000			.170	. 130	. 100
MAY	1.000	.110	.200		.340	.310
JUL	1.400	.800	.400	.320	.340	.310
SEP	3.800	.350	.280	.280	.260	.220
NOV	2.900	.140	.200	.180	76(1	220

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

RAI	4	TREATED	SITE 1		SITE 2	
		w 14 g	STANDING	FREE FLOW	STANDING	FREE FLOW
LKALINITY		RY (LAB)	DET'N LIMIT = 0.2	GUIDELINE =	30-500 (43)	
TENTERNITI	(Ma/L)		DET N CINIT - 0.2	GOIDELINE -	30 300 (A3)	
JAN	104.700	95.000	93.600	93.900	97.300	97.100
MAR	103.100	93.500	95.300	93.900	94.300	94.300
MAY	101.500	90.800	92.800	93.700		
JUL	! 18	94.600	92.900	94.100	90.600	92.900
SEP	94.300	86.800	90.200	88.800		•
NOV	103.400	95.800	95.700	94.900	96.800	96.800
CALCIUM (MO	G/L)	8	DET'N LIMIT = 0.2	GUIDELINE =	100 (F2)	
JAN	41.000	40.400	44.500	43.300	40.400	40.700
MAR	41.800	43.900	43.900	45.100	44.100	44.100
MAY	39.000	39.500	40.300	40.300	Secretarian September 1981	***
JUL	41.000	40.200	40.400	41.400	41.400	42.000
SEP	38.000	38.400	39.200	38.600	in the second se	Water County Cold (
NOV	41.000	41.500	43.600	42.800	40.100	41.000
HLORIDE (IG/L)		DET'N LIMIT = 0.2	GUIDELINE =	250 (A3)	
JAN	37.900	41.000	35.700	37.000	35.900	34.900
MAR	29.900	32.600	35.400	33.200	31.600	31.900
MAY	24.800	27.200	29.000	28.600	8 1	
JUL	24.500	28.200	26.800	26.400	27.500	27.400
SEP	22.200	. 25.200	25.400	24.700		
NOV	25.200	26.500	27.400	27.700	25.100	24.900
OLOUR (HZL)		DET'N LIMIT = 0.5	GUIDELINE =	5 (A3)	
JAN	2.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <</td></t<></td></t<>	1.000 <t< td=""><td>1.000 <</td></t<>	1.000 <
MAR	.500 <t< td=""><td>BDL</td><td>.500 <t< td=""><td>1.000 <t< td=""><td>.500 <t< td=""><td>.500 <</td></t<></td></t<></td></t<></td></t<>	BDL	.500 <t< td=""><td>1.000 <t< td=""><td>.500 <t< td=""><td>.500 <</td></t<></td></t<></td></t<>	1.000 <t< td=""><td>.500 <t< td=""><td>.500 <</td></t<></td></t<>	.500 <t< td=""><td>.500 <</td></t<>	.500 <
MAY	2.000 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>Market W</td><td>Subsequents E</td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>Market W</td><td>Subsequents E</td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>Market W</td><td>Subsequents E</td></t<></td></t<>	.500 <t< td=""><td>Market W</td><td>Subsequents E</td></t<>	Market W	Subsequents E
JUL	2.000 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>1.000 <</td></t<></td></t<>	.500 <t< td=""><td>1.000 <</td></t<>	1.000 <
SEP	.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td></td><td></td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""><td></td><td></td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""><td></td><td></td></t<></td></t<>	.500 <t< td=""><td></td><td></td></t<>		
NOV	2.000 <t< td=""><td>1.000 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.500 <t< td=""><td>1.000 <</td></t<></td></t<>	1.500 <t< td=""><td>1.000 <</td></t<>	1.000 <
ONDUCTIVIT	Y (UMHO/CM)		DET'N LIMIT = 1.	GUIDELINE =	400 (F2)	······
JAN	390	397	373	376	381	378
MAR	357	364	373	367	360	361
MAY	336	342	350	349	14V 2 0 1	
JUL	! 18	340	337	335	381	342
SEP	312	318	322	320	301	5 5
NOV	340	343	350	350	345	345
ISS ORG CA	RBON (MG/L)	DET'N LIMIT = .100	GUIDELINE =	5.0 (A3)	
JAN	1.700	1.700	1.700	1.800	1.800	1.700
MAR	1.800	1.600	1.900	1.500	1.900	1.600
MAY	2.100	2.000	2.000	2.000	1.700	1.000
JUL	2.100	2.000	1.800	2.300	2.100	2.000
SEP	2.200				2.100	2.000
		2.000	2.000	1.800	2.200	1.900
NOV	1.800	1.600	1.700	1.800	2.200	1.900

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	V.
	, s		STANDING	FREE FLOW	· STANDING	FREE FLOW
LUORII	DE (MG/L)		DET'N LIMIT = 0.01	GUIDELINE =	2.4 (A1)	
JAN	.220	1.640	1.020	1.040	1.200	1.220
MAR	.140	1.260	1.160	1.180	1.160	1.160
MAY	.120	1.320	1.180	1.120		
JUL	.120	.920	1.000	.820	1.040	1.040
SEP	.120	1,100	1.020	1.060	violid vedes taxader	N Management
NOV	.180	.180	1.060	1.020	1.060	1.020
ARDNES	SS (MG/L)		DET'N LIMIT = 0.5	GUIDELINE =	80-100 (A4)	
JAN	138.400	136.600	146.700	143.700	135.800	137.000
MAR	139.200	144.100	145.600	149.100	147.600	147.200
MAY	131.200	132.900	135.800	135.200	- CONTRACTOR (TOTAL TOTAL TOTA	32122797000000000000000000000000000000000
JUL	139.000	137.000	136.000	140.000	141.000	141.000
SEP	130.000	131.000	132.700	130.700		171.500
NOV	137.500	138.100	145.000	142.000	136.500	139.000
		136.100	143.000		• • • • • • • • • • • • • • • • • • • •	139.000
ONCAL	(DMNSLESS)		DET'N LIMIT = N/A	GUIDELINE =	N/A	
JAN	.671	.702	5.694	2.851	1.495	.222
MAR	.299	4.027	3.365	6.333	6.407	5.118
MAY	4.663	2.595	1.163	1.768		
JUL	.000	.036	1.774	2.880	5.076	3.764
SEP	.429	2.202	.627	.251	3.010	J., U.
NOV	4.309	.508	3.204	1.510	1.946	.142
ANGEL I	IERS INDEX (DMNSLESS)	DET'N LIMIT = N/A	GUIDELINE =	N/A	
. JAN	. 463	.383	.541	.590	.385	.428
MAR	. 468	.176	.323	.339	.382	.272
MAY	.473	.269	.327	.321	.502	
JUL	.4.3	.455	.339		245	.326
	773			.426	245	.320
SEP	.432	.240	.425	.442		
NOV	.482	.404	.434	.472	.493	.463
AGNESI	UM (MG/L)		DET'N LIMIT = 0.1	GUIDELINE = 3	50 (F2)	
JAN	8.750	8.650	8.650	8.650	8.500	8.650
MAR	8.450	8.400	8.750	8.850	9.100	9.000
MAY	8.250	8.350	8.550	8.400	164,433	,,,,,,
JUL	8.900	8.900	8.700	8.800	9.000	8.800
SEP	8.400				7.000	0.000
NOV	8.500	8.500 8.400	8.450 8.700	8.340 8.600	8.800	8.900
MULDO			DET'N LIMIT = 0.2	GUIDELINE =	200 (A4)	
MAL	23.100	22.600	19.200	19.400	19.800	19.400
MAR	17.200	17.300	18.600	17.600	16.900	16.600
MAY	12.700	12.800	14.100	13.700	No.	3 <u>2</u> 0
JUL	13.800	13.800	13.600	13.200	13.800	13.800
SEP	11.800	12.000	11.500	11.600		13.300
NOV	11.700	12.500			12.400	12.300
MOA	11.700	12.300	13.800	13.400	12.400	12.300

WATER TREATMENT PLANT

RAW		TREATED	SITE 1		SITE 2		
		e e	STANDING	FREE FLOW	STANDING	FREE FLOW	
AMMONIUM TOT	'AL (MG/L)	=	DET'N LIMIT = 0.002	GUIDELINE = 0.	05 (F2)	4 9	
JAN	.078	.150	-054	.060	.038	-014	
MAR	.042	. 188	.124	.030	.094	.094	
MAY	.024	.084	.004 <t< td=""><td>.004 <t< td=""><td>••••</td><td></td></t<></td></t<>	.004 <t< td=""><td>••••</td><td></td></t<>	••••		
JUL	.058	.084	.056	.026	.008 <t< td=""><td>BDL</td></t<>	BDL	
SEP	BDL	BOL	.138	.106	.000 11	. OUL	
NOV	.020	.220	.092	.034	.086	.072	
NITRITE (MG/	'L')	.1	DET'N LIMIT = 0.001	GUIDELINE = 1	(A1)		
JAN	.011	.003 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""><td>.002</td><td>.001</td></t<></td></t<></td></t<>	.002 <t< td=""><td>.001 <t< td=""><td>.002</td><td>.001</td></t<></td></t<>	.001 <t< td=""><td>.002</td><td>.001</td></t<>	.002	.001	
MAR	.008	.001 <t< td=""><td>.008</td><td>.003 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<>	.008	.003 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<>	.002 <t< td=""><td>.001 <t< td=""></t<></td></t<>	.001 <t< td=""></t<>	
MAY	.006	.001 <t< td=""><td></td><td></td><td>.002 <1</td><td>.001 <1</td></t<>			.002 <1	.001 <1	
JUL	.015		.001 <7	BOL	00.	200	
SEP	.001 <t< td=""><td>.004 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""><td>.006</td><td>.006</td></t<></td></t<></td></t<></td></t<>	.004 <t< td=""><td>.002 <t< td=""><td>.002 <t< td=""><td>.006</td><td>.006</td></t<></td></t<></td></t<>	.002 <t< td=""><td>.002 <t< td=""><td>.006</td><td>.006</td></t<></td></t<>	.002 <t< td=""><td>.006</td><td>.006</td></t<>	.006	.006	
		.001 <t< td=""><td>.003 <</td><td>.004 <t< td=""><td></td><td></td></t<></td></t<>	.003 <	.004 <t< td=""><td></td><td></td></t<>			
NOV	.008	.001 <t< td=""><td>.003 <7</td><td>.001 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<></td></t<>	.003 <7	.001 <t< td=""><td>.002 <t< td=""><td>.001 <t< td=""></t<></td></t<></td></t<>	.002 <t< td=""><td>.001 <t< td=""></t<></td></t<>	.001 <t< td=""></t<>	
TOTAL NITRAT	ES (MG/L)	**************************************	DET'N LIMIT = 0.005	GUIDELINE = 1	0 (A1)		
JAN	.455	.470	-440	.455	.465	.455	
MAR	.470	.475	.505	.480	.470	.465	
MAY	.385	.400	.385	.380	* 14.5		
JUL	.355	.365	.360	.360	.355	.350	
SEP	.335	.270	.300	.315	.333	.550	
NOV	.410	.400	.430	.430	.405	.395	
NITROGEN TOT	KJELD (MG/L)	DET'N LIMIT = 0.02	GUIDELINE = N/A	 A		
JAN	.360	7/0	270	2/0	2/0	100	
		.340	.230	.240	.240	-190	
MAR	.300	.320	.350	.210	. 260	.260	
MAY	.420	.360	.180	.180			
JUL	! IS	.310	.280	.420	.230	.220	
SEP	.300	. 180	.340	.300			
NOV	.290	.350	.330	.250	.280	.450	
H (DMNSLESS)		DET'N LIMIT = N/A	GUIDELINE = 6.	5-8.5(A4)		
JAN	8.280	8.250	8.370	8.430	8.240	8.280	
MAR	8.280	8.010	8.150	8.160	8.210	8.100	
MAY	8:320	8.160	8.200	8.190			
JUL	! IS	8.320	8.210	8.280	7.630	8.180	
SEP	8.320	8.160	8.320	8.350		01.00	
NOV	8.300	8.250	8.260	8.310	8.350	8.310	
HOSPHORUS F	IL REACT (MG/L)	DET'N LIMIT = 0.0005	GUIDELINE = N/A	(
JAN	.001 <t< td=""><td>.000 <t< td=""><td>11 •</td><td>O</td><td></td><td>£</td></t<></td></t<>	.000 <t< td=""><td>11 •</td><td>O</td><td></td><td>£</td></t<>	11 •	O		£	
MAR	.001 <t< td=""><td>.000 <t< td=""><td></td><td></td><td></td><td>5 ■.0 1926</td></t<></td></t<>	.000 <t< td=""><td></td><td></td><td></td><td>5 ■.0 1926</td></t<>				5 ■ .0 1926	
MAY	.001 <t< td=""><td>.002</td><td>· · · · · · · · · · · · · · · · · · ·</td><td>2●/2</td><td>5 · 5</td><td></td></t<>	.002	· · · · · · · · · · · · · · · · · · ·	2● /2	5 · 5		
	.000 <t< td=""><td>.001 <t< td=""><td>a _ *</td><td></td><td>a B</td><td></td></t<></td></t<>	.001 <t< td=""><td>a _ *</td><td></td><td>a B</td><td></td></t<>	a _ *		a B		
JUL				•	*		
JUL SEP	.002 <t< td=""><td>BDL</td><td></td><td></td><td>N 20</td><td></td></t<>	BDL			N 20		

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

RAW		TREATED	SITE 1	5	SITE 2	
	N N N		STANDING	FREE FLOW	STANDING	FREE FLOW
PHOSPHORUS	TOTAL (MG/L)	DET'N LIMIT = 0.002	GUIDELINE = .	40 (F2)	
JAN	.023	.006 <t< td=""><td>W.</td><td>8 6 2</td><td>· ·</td><td>' </td></t<>	W.	8 6 2	· ·	'
MAR	.018	BDL				
MAY	-019	.004 <t< td=""><td>•</td><td></td><td>- MV</td><td>***</td></t<>	•		- MV	***
JUL	!18	.004 <t< td=""><td>•</td><td></td><td></td><td></td></t<>	•			
SEP	.030	.008 <t< td=""><td>*</td><td>**************************************</td><td>* **</td><td></td></t<>	*	**************************************	* **	
NOV	.025	.007 <t< td=""><td></td><td></td><td>*</td><td></td></t<>			*	
SULPHATE (MG/L)	, v	DET'N LIMIT = .200	GUIDELINE = 5	00 (A3)	
JAN	29.110	31.580	31.560	31.810	30.790	30.570
MAR	27.990	32.840	32.030	32.410	31.610	32.310
MAY	27.380	33.280	31.960	31.170	(9))	
JUL	27.350	30.350	30.250	29.740	30.300	30.760
SEP	26.460	29.010	28.790	29.820	•	
NOV	28.230	31.040	32.280	32.050	31.740	31.520
TURBIDITY	(FTU)	201	DET'N LIMIT = 0.05	GUIDELINE = 1	(A1)	
JAN	6.400	.280	.210 <t< td=""><td>.730</td><td>.680</td><td>.280</td></t<>	.730	.680	.280
MAR	4.400	.440	.680	.420	.410	.390
MAY	2.500	.600	.450	.540	F	# &
JUL	3.000	.320	.560	.320	.500	.920
SEP	6.700	.350	.760	.590	ADMIC SECTION	227
NOV	2.500	.600	.430	.470	.750	.710

WATER TREATMENT PLANT

RAW		TREATED	SITE 1	5960 Al	SITE 2			
			STANDING	FREE FLOW	STANDING	FREE FLOW		
	METALS							
SILVER (U	The second secon	*_	DET'N LIMIT = 0.05	GUIDELIN	E = 50 (A1)			
JAN	BDL	BDL	BDL	BDL	BDL	BDL		
MAR	BDL	.060 <t< td=""><td>BDL</td><td>BDL</td><td>.060 <t< td=""><td>.060 <</td></t<></td></t<>	BDL	BDL	.060 <t< td=""><td>.060 <</td></t<>	.060 <		
MAY	BDL	BDL	.060 <t< td=""><td>BDL</td><td>33</td><td>T. R. L.</td></t<>	BDL	33	T. R. L.		
JUL	BOL	BDL	BDL	BDL	BDL	BDL		
SEP	BOL	BDL	BDL	BDL		10 2 T		
NOV	BDL	BDL	BDL	BDL	BDL	BDL		
ALUMINUM ((UG/L)		DET'N LIMIT = 0.10	GUIDELINE :	= 100 (A4)			
JAN	54.000	51.000	62.000	63.000	59.000	54.000		
			40.000	46.000	55.000	54.000		
MAR	52.000	49.000		97.000	33.000	J4.000		
MAY	25.000	89.000	85.000		110 000	110.000		
JUL	17.000	110.000	140.000	120.000	110.000	110.000		
SEP	69.000	230.000	180.000	200.000	400 000	04 000		
NOV	72.000	88.000	67.000	65.000	100.000	91.000		
RSENIC (U	UG/L)	11 <u>8</u> 8	DET'N LIMIT = 0.10	GUIDELINE =	25 (A1)	w er		
JAN	.530 <t< td=""><td>.660 <t< td=""><td>.410 <t< td=""><td>.400 <t< td=""><td>.520 <t< td=""><td>.570 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.660 <t< td=""><td>.410 <t< td=""><td>.400 <t< td=""><td>.520 <t< td=""><td>.570 <</td></t<></td></t<></td></t<></td></t<>	.410 <t< td=""><td>.400 <t< td=""><td>.520 <t< td=""><td>.570 <</td></t<></td></t<></td></t<>	.400 <t< td=""><td>.520 <t< td=""><td>.570 <</td></t<></td></t<>	.520 <t< td=""><td>.570 <</td></t<>	.570 <		
MAR	.650 <t< td=""><td>.620 <t< td=""><td>.400 <t< td=""><td>.400 <t< td=""><td>.550 <t< td=""><td>.690 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.620 <t< td=""><td>.400 <t< td=""><td>.400 <t< td=""><td>.550 <t< td=""><td>.690 <</td></t<></td></t<></td></t<></td></t<>	.400 <t< td=""><td>.400 <t< td=""><td>.550 <t< td=""><td>.690 <</td></t<></td></t<></td></t<>	.400 <t< td=""><td>.550 <t< td=""><td>.690 <</td></t<></td></t<>	.550 <t< td=""><td>.690 <</td></t<>	.690 <		
MAY	.740 <t< td=""><td>.740 <t< td=""><td>.550 <t< td=""><td>.670 <t< td=""><td>)): ()</td><td>el o g</td></t<></td></t<></td></t<></td></t<>	.740 <t< td=""><td>.550 <t< td=""><td>.670 <t< td=""><td>)): ()</td><td>el o g</td></t<></td></t<></td></t<>	.550 <t< td=""><td>.670 <t< td=""><td>)): ()</td><td>el o g</td></t<></td></t<>	.670 <t< td=""><td>)): ()</td><td>el o g</td></t<>)): ()	el o g		
JUL .	.750 <t< td=""><td>.600 <t< td=""><td>.550 <t< td=""><td>.460 <t< td=""><td>.680 <t< td=""><td>.670 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.600 <t< td=""><td>.550 <t< td=""><td>.460 <t< td=""><td>.680 <t< td=""><td>.670 <</td></t<></td></t<></td></t<></td></t<>	.550 <t< td=""><td>.460 <t< td=""><td>.680 <t< td=""><td>.670 <</td></t<></td></t<></td></t<>	.460 <t< td=""><td>.680 <t< td=""><td>.670 <</td></t<></td></t<>	.680 <t< td=""><td>.670 <</td></t<>	.670 <		
SEP	.850 <t< td=""><td>.610 <t< td=""><td>.750 <t< td=""><td>.520 <t< td=""><td></td><td></td></t<></td></t<></td></t<></td></t<>	.610 <t< td=""><td>.750 <t< td=""><td>.520 <t< td=""><td></td><td></td></t<></td></t<></td></t<>	.750 <t< td=""><td>.520 <t< td=""><td></td><td></td></t<></td></t<>	.520 <t< td=""><td></td><td></td></t<>				
NOV	.540 <t< td=""><td>.570 <t< td=""><td>BDL</td><td>.110 <t< td=""><td>.420 <t< td=""><td>.410 <</td></t<></td></t<></td></t<></td></t<>	.570 <t< td=""><td>BDL</td><td>.110 <t< td=""><td>.420 <t< td=""><td>.410 <</td></t<></td></t<></td></t<>	BDL	.110 <t< td=""><td>.420 <t< td=""><td>.410 <</td></t<></td></t<>	.420 <t< td=""><td>.410 <</td></t<>	.410 <		
BARIUM (UC	G/L)		DET'N LIMIT = 0.05	GUIDELINE =	= 1000 (A2)			
JAN	25.000	23.000	24.000	25.000	23.000	23.000		
MAR	25.000	22.000	21.000	22.000	23.000	23.000		
MAY	24.000	23.000	23.000	23.000	1999	-		
JUL	23.000	22.000	21.000	22.000	22.000	22,000		
SEP	25.000	24.000	23.000	23.000	22.000	20.000		
			23.000	23.000	23.000	22.000		
NOV	24.000	22.000	23.000	23.000	23.000			
ORON (UG)	/L)		DET'N LIMIT = 2.00	GUIDELINE	= 5000 (A1)			
JAN	28.000	27.000	29.000	30.000	34.000	28.000		
MAR	28.000	27.000	32.000	29.000	29.000	28.000		
MAY	62.000	58.000	36.000	61.000		≝ <u>,</u> , , ,		
JUL	30.000	27.000	25.000	24.000	30.000	31.000		
SEP	26.000	25.000	25.000	24.000		*S 6000 15 (400 15 (500 15))))))))))))))))))))		
NOV	33.000	31.000	29.000	30.000	27.000	25.000		
ADMIUM (L	JG/L)		DET'N LIMIT = 0.05	GUIDELINE	= 5 (A1)	* ex *		
JAN .	BDL	BDL	BDL	.060 <t< td=""><td>BDL</td><td>BDL</td></t<>	BDL	BDL		
MAR	.060 <t< td=""><td>BOL</td><td>.110 <t< td=""><td>.090 <t< td=""><td>.090 <t< td=""><td>.090 <</td></t<></td></t<></td></t<></td></t<>	BOL	.110 <t< td=""><td>.090 <t< td=""><td>.090 <t< td=""><td>.090 <</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.090 <t< td=""><td>.090 <</td></t<></td></t<>	.090 <t< td=""><td>.090 <</td></t<>	.090 <		
MAY	BDL	BDL	BDL	BDL	**************************************	(62/53) A		
JUL	BDL	BOL	BDL	BDL	BDL	BDL		
SEP	BDL	BDL	BDL	BDL				
NOV		.080 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td></t<>	BDL	BDL	BDL	BDL		
MOV	BDL	.000 <1	BUL	BUL	DUL			

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
COBALT ((UG/L)		DET'N LIMIT = 0.02	GUIDELINE	= N/A	
JAN	.130 <t< td=""><td>.150 <t< td=""><td>.100 <t< td=""><td>.090 <t< td=""><td>.140 <t< td=""><td>.070 <1</td></t<></td></t<></td></t<></td></t<></td></t<>	.150 <t< td=""><td>.100 <t< td=""><td>.090 <t< td=""><td>.140 <t< td=""><td>.070 <1</td></t<></td></t<></td></t<></td></t<>	.100 <t< td=""><td>.090 <t< td=""><td>.140 <t< td=""><td>.070 <1</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.140 <t< td=""><td>.070 <1</td></t<></td></t<>	.140 <t< td=""><td>.070 <1</td></t<>	.070 <1
MAR	.130 <t< td=""><td>.080 <t< td=""><td>.100 <t< td=""><td>.030 <t< td=""><td>.080 <t< td=""><td>.100 <1</td></t<></td></t<></td></t<></td></t<></td></t<>	.080 <t< td=""><td>.100 <t< td=""><td>.030 <t< td=""><td>.080 <t< td=""><td>.100 <1</td></t<></td></t<></td></t<></td></t<>	.100 <t< td=""><td>.030 <t< td=""><td>.080 <t< td=""><td>.100 <1</td></t<></td></t<></td></t<>	.030 <t< td=""><td>.080 <t< td=""><td>.100 <1</td></t<></td></t<>	.080 <t< td=""><td>.100 <1</td></t<>	.100 <1
MAY	.180 <t< td=""><td>.180 <t< td=""><td>.140 <t< td=""><td>.150 <t< td=""><td></td><td>1199</td></t<></td></t<></td></t<></td></t<>	.180 <t< td=""><td>.140 <t< td=""><td>.150 <t< td=""><td></td><td>1199</td></t<></td></t<></td></t<>	.140 <t< td=""><td>.150 <t< td=""><td></td><td>1199</td></t<></td></t<>	.150 <t< td=""><td></td><td>1199</td></t<>		1199
JUL	.100 <t< td=""><td>.220 <t< td=""><td></td><td></td><td>.180 <t< td=""><td>.070 <</td></t<></td></t<></td></t<>	.220 <t< td=""><td></td><td></td><td>.180 <t< td=""><td>.070 <</td></t<></td></t<>			.180 <t< td=""><td>.070 <</td></t<>	.070 <
SEP			.190 <t< td=""><td>.060 <t< td=""><td>.100 (1</td><td>.070 <</td></t<></td></t<>	.060 <t< td=""><td>.100 (1</td><td>.070 <</td></t<>	.100 (1	.070 <
NOV	.240 <t< td=""><td>.100 <t< td=""><td>BDL</td><td>.060 <t< td=""><td>050 47</td><td>000 -</td></t<></td></t<></td></t<>	.100 <t< td=""><td>BDL</td><td>.060 <t< td=""><td>050 47</td><td>000 -</td></t<></td></t<>	BDL	.060 <t< td=""><td>050 47</td><td>000 -</td></t<>	050 47	000 -
	.130 (1	.040 <t< td=""><td>.040 <t< td=""><td>.040 <t< td=""><td>.050 <t< td=""><td>.060 <</td></t<></td></t<></td></t<></td></t<>	.040 <t< td=""><td>.040 <t< td=""><td>.050 <t< td=""><td>.060 <</td></t<></td></t<></td></t<>	.040 <t< td=""><td>.050 <t< td=""><td>.060 <</td></t<></td></t<>	.050 <t< td=""><td>.060 <</td></t<>	.060 <
CHROMIUM	(UG/L)		DET'N LIMIT = 0.50	GUIDELINE	= 50 (A1)	
JAN	.980 <t< td=""><td>.580 <t< td=""><td>.600 <t< td=""><td>.670 <t< td=""><td>1.700 <t< td=""><td>1.100 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.580 <t< td=""><td>.600 <t< td=""><td>.670 <t< td=""><td>1.700 <t< td=""><td>1.100 <</td></t<></td></t<></td></t<></td></t<>	.600 <t< td=""><td>.670 <t< td=""><td>1.700 <t< td=""><td>1.100 <</td></t<></td></t<></td></t<>	.670 <t< td=""><td>1.700 <t< td=""><td>1.100 <</td></t<></td></t<>	1.700 <t< td=""><td>1.100 <</td></t<>	1.100 <
MAR	.960 <t< td=""><td>1.100 <t< td=""><td>.610 <t< td=""><td>.740 <t< td=""><td>1.100 <t< td=""><td>.970 <</td></t<></td></t<></td></t<></td></t<></td></t<>	1.100 <t< td=""><td>.610 <t< td=""><td>.740 <t< td=""><td>1.100 <t< td=""><td>.970 <</td></t<></td></t<></td></t<></td></t<>	.610 <t< td=""><td>.740 <t< td=""><td>1.100 <t< td=""><td>.970 <</td></t<></td></t<></td></t<>	.740 <t< td=""><td>1.100 <t< td=""><td>.970 <</td></t<></td></t<>	1.100 <t< td=""><td>.970 <</td></t<>	.970 <
MAY	2.300 <t< td=""><td>2.200 <t< td=""><td>1.100 <t< td=""><td>2.500 <t< td=""><td>2 2</td><td></td></t<></td></t<></td></t<></td></t<>	2.200 <t< td=""><td>1.100 <t< td=""><td>2.500 <t< td=""><td>2 2</td><td></td></t<></td></t<></td></t<>	1.100 <t< td=""><td>2.500 <t< td=""><td>2 2</td><td></td></t<></td></t<>	2.500 <t< td=""><td>2 2</td><td></td></t<>	2 2	
JUL	1.900 <t< td=""><td>.770 <t< td=""><td>.810 <t< td=""><td>.740 <t< td=""><td>2.400 <t< td=""><td>2.600 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.770 <t< td=""><td>.810 <t< td=""><td>.740 <t< td=""><td>2.400 <t< td=""><td>2.600 <</td></t<></td></t<></td></t<></td></t<>	.810 <t< td=""><td>.740 <t< td=""><td>2.400 <t< td=""><td>2.600 <</td></t<></td></t<></td></t<>	.740 <t< td=""><td>2.400 <t< td=""><td>2.600 <</td></t<></td></t<>	2.400 <t< td=""><td>2.600 <</td></t<>	2.600 <
SEP	.600 <t< td=""><td>BDL</td><td>BDL</td><td>.510 <t< td=""><td>Mac S</td><td>2.000</td></t<></td></t<>	BDL	BDL	.510 <t< td=""><td>Mac S</td><td>2.000</td></t<>	Mac S	2.000
NOV	2.100 <t< td=""><td>1.700 <t< td=""><td>.840 <t< td=""><td>1.700 <t< td=""><td>.580 <t< td=""><td>.560 <</td></t<></td></t<></td></t<></td></t<></td></t<>	1.700 <t< td=""><td>.840 <t< td=""><td>1.700 <t< td=""><td>.580 <t< td=""><td>.560 <</td></t<></td></t<></td></t<></td></t<>	.840 <t< td=""><td>1.700 <t< td=""><td>.580 <t< td=""><td>.560 <</td></t<></td></t<></td></t<>	1.700 <t< td=""><td>.580 <t< td=""><td>.560 <</td></t<></td></t<>	.580 <t< td=""><td>.560 <</td></t<>	.560 <
COPPER (DET'N LIMIT = 0.50		= 1000 (A3)	
engren s	- · ·		DET W E11111 - 0130	GOIDELINE	= 1000 (AS)	
JAN	200.000	4.300 <t< td=""><td>23.000</td><td>10.000</td><td>21.000</td><td>2.700 <</td></t<>	23.000	10.000	21.000	2.700 <
MAR	18.000	1.800 <t< td=""><td>120.000</td><td>14.000</td><td>6.500</td><td>6.400</td></t<>	120.000	14.000	6.500	6.400
MAY	16.000	1.300 <t< td=""><td>36.000</td><td>12.000</td><td>7.75 M</td><td></td></t<>	36.000	12.000	7.75 M	
JUL	38.000	1.700 <t< td=""><td>31.000</td><td>16.000</td><td>20.000</td><td>2.500 <</td></t<>	31.000	16.000	20.000	2.500 <
SEP	59.000	6.300	26.000	11.000		
NOV	37.000	2.900 <t< td=""><td>29.000</td><td>10.000</td><td>9.600</td><td>2.300 <</td></t<>	29.000	10.000	9.600	2.300 <
IRON (UG	/L)		DET'N LIMIT = 6.00	GUIDELINE	= 300 (A3)	
1347	00 000	* · · · · · · · · · · · · · · · · · · ·	σ <u></u> w :			
JAN	98.000	BDL	BDL	BDL	BDL	BDL
MAR	78.000	6.600 <t< td=""><td>6.500 <t< td=""><td>BDL</td><td>6.500 <t< td=""><td>12.000 <</td></t<></td></t<></td></t<>	6.500 <t< td=""><td>BDL</td><td>6.500 <t< td=""><td>12.000 <</td></t<></td></t<>	BDL	6.500 <t< td=""><td>12.000 <</td></t<>	12.000 <
MAY	32.000 <t< td=""><td>BDL</td><td>6.900 <t< td=""><td>BDL</td><td></td><td></td></t<></td></t<>	BDL	6.900 <t< td=""><td>BDL</td><td></td><td></td></t<>	BDL		
JUL	35.000 <t< td=""><td>8.700 <t< td=""><td>11.000 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td></t<></td></t<></td></t<>	8.700 <t< td=""><td>11.000 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td></t<></td></t<>	11.000 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td></t<>	BDL	BDL	BDL
SEP	140.000	8.900 <t< td=""><td>BDL</td><td>11.000 <t< td=""><td></td><td>S</td></t<></td></t<>	BDL	11.000 <t< td=""><td></td><td>S</td></t<>		S
NOV	140.000	BDL	BDL	BDL	BDL	BDL
HERCURY	(UG/L)	ж.,	DET'N LIMIT = 0.02	GUIDELINE	= 1 (A1)	
1844			- 3 , , , , , , ,	W	W. Co. 1989	
JAN	.020 <t< td=""><td>.020 <t< td=""><td><i>μ</i></td><td></td><td>, · · · · · · · · · · · · · · · · · · ·</td><td>•</td></t<></td></t<>	.020 <t< td=""><td><i>μ</i></td><td></td><td>, · · · · · · · · · · · · · · · · · · ·</td><td>•</td></t<>	<i>μ</i>		, · · · · · · · · · · · · · · · · · · ·	•
MAR .	BDL	BDL			St 2	
MAY	BDL	BDL	# , ₽ , •		•)." **
JUL	BDL	BDL	· · · · · · · · · · · · · · · · · · ·	1.5		2#8 (₩ 1
SEP	BDL	BDL	7 4	22		140
NOV	.050 <t< td=""><td>BDL</td><td></td><td>97 U</td><td></td><td>(2) (1)</td></t<>	BDL		97 U		(2) (1)
MANGANESI	E (UG/L)		DET'N LIMIT = 0.05	GUIDELINE	= 50 (A3)	
		·				
JAN	5.400	.670	.780	.770	.720	.530
	6.900	.770	.710	.830	.890	.870
MAR		7/0 -	700	.630		
	3.600	.360 <t< td=""><td>.780</td><td>.030</td><td>•</td><td>· ·</td></t<>	.780	.030	•	· ·
MAR	3.600 5.600	1.100			1.100	.890
MAR MAY			1,400 .990	1.100	1.100	.890

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

. R	AU -	TREATED	SITE 1		SITE 2		
			STANDING	FREE FLOW	STANDING	FREE FLOW	
MOLYBDENU	M (UG/L)		DET'N LIMIT = 0.05	GUIDELINE :	= N/A		
JAN .	1.100	1.200	1.400	1.400	1.200	1.200	
MAR	1.100	1.200	1.300	1.300	1.200	1.200	
MAY	1.100	1.200	1.200	1.200	-		
JUL	1.100	1.300	1.300	1.300	1.200	1.300	
SEP	1.100	1.400	1.300	1.600	n Marian		
NOV	1.100	1.300	1.300	1.300	1.300	1.300	
NICKEL (U	G/L)		DET'N LIMIT = 0.20	GUIDELINE :	= 350 (D3)		
JAN	.580 <t< td=""><td>.750 <t< td=""><td>1.000 <t< td=""><td>1.600 <t< td=""><td>1.500 <t< td=""><td>.710 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	.750 <t< td=""><td>1.000 <t< td=""><td>1.600 <t< td=""><td>1.500 <t< td=""><td>.710 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.600 <t< td=""><td>1.500 <t< td=""><td>.710 <t< td=""></t<></td></t<></td></t<></td></t<>	1.600 <t< td=""><td>1.500 <t< td=""><td>.710 <t< td=""></t<></td></t<></td></t<>	1.500 <t< td=""><td>.710 <t< td=""></t<></td></t<>	.710 <t< td=""></t<>	
MAR	.680 <t< td=""><td>.740 <t< td=""><td>BDL</td><td>BDL</td><td>1.800 <t< td=""><td>1.400 <t< td=""></t<></td></t<></td></t<></td></t<>	.740 <t< td=""><td>BDL</td><td>BDL</td><td>1.800 <t< td=""><td>1.400 <t< td=""></t<></td></t<></td></t<>	BDL	BDL	1.800 <t< td=""><td>1.400 <t< td=""></t<></td></t<>	1.400 <t< td=""></t<>	
MAY	.960 <t< td=""><td>1.100 <t< td=""><td>1.200 <t< td=""><td>1.100 <t< td=""><td>10</td><td></td></t<></td></t<></td></t<></td></t<>	1.100 <t< td=""><td>1.200 <t< td=""><td>1.100 <t< td=""><td>10</td><td></td></t<></td></t<></td></t<>	1.200 <t< td=""><td>1.100 <t< td=""><td>10</td><td></td></t<></td></t<>	1.100 <t< td=""><td>10</td><td></td></t<>	10		
JUL	1.300 <t< td=""><td>.860 <t< td=""><td>.770 <t< td=""><td>1.400 <t< td=""><td>1.100 <t< td=""><td>.630 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	.860 <t< td=""><td>.770 <t< td=""><td>1.400 <t< td=""><td>1.100 <t< td=""><td>.630 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.770 <t< td=""><td>1.400 <t< td=""><td>1.100 <t< td=""><td>.630 <t< td=""></t<></td></t<></td></t<></td></t<>	1.400 <t< td=""><td>1.100 <t< td=""><td>.630 <t< td=""></t<></td></t<></td></t<>	1.100 <t< td=""><td>.630 <t< td=""></t<></td></t<>	.630 <t< td=""></t<>	
SEP	.380 <t< td=""><td>BDL</td><td>.320 <t< td=""><td>.900 <t< td=""><td></td><td></td></t<></td></t<></td></t<>	BDL	.320 <t< td=""><td>.900 <t< td=""><td></td><td></td></t<></td></t<>	.900 <t< td=""><td></td><td></td></t<>			
NOV	.720 <1	.550 <t< td=""><td>.460 <t< td=""><td>.520 <t< td=""><td>.830 <t< td=""><td>.600 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.460 <t< td=""><td>.520 <t< td=""><td>.830 <t< td=""><td>.600 <t< td=""></t<></td></t<></td></t<></td></t<>	.520 <t< td=""><td>.830 <t< td=""><td>.600 <t< td=""></t<></td></t<></td></t<>	.830 <t< td=""><td>.600 <t< td=""></t<></td></t<>	.600 <t< td=""></t<>	
LEAD (UG/	L)		DET'N LIMIT = 0.05	GUIDELINE :	= 10. (A1)	6	
MAL	1.100	BDL	.930	.330 <t< td=""><td>2.300</td><td>BDL</td></t<>	2.300	BDL	
MAR	.730	.080 <t< td=""><td>5.000</td><td>.330 <t< td=""><td>.630</td><td>.640</td></t<></td></t<>	5.000	.330 <t< td=""><td>.630</td><td>.640</td></t<>	.630	.640	
MAY	.540	.070 <t< td=""><td>2.200</td><td>.540</td><td>\`•</td><td>•</td></t<>	2.200	.540	\ `•	•	
JUL	.410 <t< td=""><td>.120 <t< td=""><td>1.800</td><td>.830</td><td>1.800</td><td>.270 <t< td=""></t<></td></t<></td></t<>	.120 <t< td=""><td>1.800</td><td>.830</td><td>1.800</td><td>.270 <t< td=""></t<></td></t<>	1.800	.830	1.800	.270 <t< td=""></t<>	
SEP	1.000	.110 <t< td=""><td>2.100</td><td>.660</td><td>, and</td><td>Washing Assets William</td></t<>	2.100	.660	, and	Washing Assets William	
NOV	.940	BDL	1.700	.380 <t< td=""><td>1.300</td><td>.260 <t< td=""></t<></td></t<>	1.300	.260 <t< td=""></t<>	
ANTIMONY	(UG/L)		DET'N LIMIT = 0.05	GUIDELINE	= 146 (D4)	5 8	
JAN	.500 <t< td=""><td>.520</td><td>.690</td><td>.580</td><td>.500 <t< td=""><td>.530</td></t<></td></t<>	.520	.690	.580	.500 <t< td=""><td>.530</td></t<>	.530	
MAR	.630	.630	.630	.570	.560	.510	
MAY	.620	.580	.700	.690		n 12515	
JUL	.610	.650	.770	.760	.580	.570	
SEP	.640	.470 <t< td=""><td>.660</td><td>.640</td><td>.500</td><td>.5,0</td></t<>	.660	.640	.500	.5,0	
NOV	.570	.520	.550	.530	.540	.440 <t< td=""></t<>	
SELENIUM	(UG/L)		DET'N LIMIT = 1.00	GUIDELINE =	= 10 (A1)		
JAN	1.100 <t< td=""><td>1.700 <t< td=""><td>BDL .</td><td>BDL</td><td>2.100 <t< td=""><td>BDL</td></t<></td></t<></td></t<>	1.700 <t< td=""><td>BDL .</td><td>BDL</td><td>2.100 <t< td=""><td>BDL</td></t<></td></t<>	BDL .	BDL	2.100 <t< td=""><td>BDL</td></t<>	BDL	
MAR	BDL	BDL	BDL	BDL	BDL	BOL	
MAY	BDL	1.400 <t< td=""><td>BDL -</td><td>1.400 <t< td=""><td></td><td></td></t<></td></t<>	BDL -	1.400 <t< td=""><td></td><td></td></t<>			
JUL	BDL	1.500 <t< td=""><td>BDL</td><td>2.000 <t< td=""><td>1.500 <t< td=""><td>BDL</td></t<></td></t<></td></t<>	BDL	2.000 <t< td=""><td>1.500 <t< td=""><td>BDL</td></t<></td></t<>	1.500 <t< td=""><td>BDL</td></t<>	BDL	
SEP	BDL	BDL	BDL	BDL	3 - 4		
NOV	BDL	BDL	BDL	BDL	BDL	BOL	
STRONTIUM	(UG/L)		DET'N LIMIT = 0.10	GUIDELINE =	N/A		
NAL	180.000	170.000	190.000	190.000	170.000	180.000	
MAR	190.000	190.000	190.000	190.000	180.000	180.000	
MAY	170.000	170.000	170.000	170.000			
JUL	170.000	160.000	170.000	170.000	170.000	170.000	
	180.000	180.000	180.000	180.000	3865 365 37 D		
SEP	100.000	100.000					

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

							12					
RAW			TREATED SITE 1			SITE 2						
					STANDING		FREE FLOW	6 E	STANDING		FREE FLOW	
TITANIUM (UG	/L)		• • • • • •	DET'N LIMIT =	0.50	GUID	ELINE =	= N/A		9 9	•••
JAN	4.800	<1	3.700 <	<t< td=""><td>3.500</td><td><t< td=""><td>3.200</td><td><⊺ -</td><td>3.600</td><td><t< td=""><td>3.300</td><td>) 4</td></t<></td></t<></td></t<>	3.500	<t< td=""><td>3.200</td><td><⊺ -</td><td>3.600</td><td><t< td=""><td>3.300</td><td>) 4</td></t<></td></t<>	3.200	<⊺ -	3.600	<t< td=""><td>3.300</td><td>) 4</td></t<>	3.300) 4
MAR	4.400	<1	4.100 <	<t< td=""><td>4.700</td><td><t< td=""><td>4.400</td><td><t< td=""><td>4.800</td><td><t< td=""><td>5.000</td><td>) .</td></t<></td></t<></td></t<></td></t<>	4.700	<t< td=""><td>4.400</td><td><t< td=""><td>4.800</td><td><t< td=""><td>5.000</td><td>) .</td></t<></td></t<></td></t<>	4.400	<t< td=""><td>4.800</td><td><t< td=""><td>5.000</td><td>) .</td></t<></td></t<>	4.800	<t< td=""><td>5.000</td><td>) .</td></t<>	5.000) .
MAY	4.800	<t< td=""><td>5.100</td><td></td><td>5.400</td><td></td><td>5.500</td><td></td><td></td><td></td><td>/=</td><td></td></t<>	5.100		5.400		5.500				/ =	
JUL	3.800	<t< td=""><td>4.300 <</td><td><t< td=""><td>4.500</td><td><1</td><td>4.100</td><td><t< td=""><td>4.300</td><td><t< td=""><td>4.100</td><td>)</td></t<></td></t<></td></t<></td></t<>	4.300 <	<t< td=""><td>4.500</td><td><1</td><td>4.100</td><td><t< td=""><td>4.300</td><td><t< td=""><td>4.100</td><td>)</td></t<></td></t<></td></t<>	4.500	<1	4.100	<t< td=""><td>4.300</td><td><t< td=""><td>4.100</td><td>)</td></t<></td></t<>	4.300	<t< td=""><td>4.100</td><td>)</td></t<>	4.100)
SEP	4.300	<1	3.900 <	<t< td=""><td>3.700</td><td><t< td=""><td>3.600</td><td><t< td=""><td>72</td><td></td><td>0.00</td><td></td></t<></td></t<></td></t<>	3.700	<t< td=""><td>3.600</td><td><t< td=""><td>72</td><td></td><td>0.00</td><td></td></t<></td></t<>	3.600	<t< td=""><td>72</td><td></td><td>0.00</td><td></td></t<>	72		0.00	
NOV	3.000	< T	2.300 <	< T	2.300	<1	2.300	<1	2.400	<t< td=""><td>2.300</td><td>٠ (</td></t<>	2.300	٠ (
JRANIUM (UG/	L)	* *			DET'N LIMIT =	0.05	GUIĎE	LINE =	100 (A1)			250
JAN	.340	<t< td=""><td>.320 <</td><td><t< td=""><td>.350</td><td><1</td><td>.360</td><td><t< td=""><td>.390</td><td><t< td=""><td>.350</td><td>) .</td></t<></td></t<></td></t<></td></t<>	.320 <	<t< td=""><td>.350</td><td><1</td><td>.360</td><td><t< td=""><td>.390</td><td><t< td=""><td>.350</td><td>) .</td></t<></td></t<></td></t<>	.350	<1	.360	<t< td=""><td>.390</td><td><t< td=""><td>.350</td><td>) .</td></t<></td></t<>	.390	<t< td=""><td>.350</td><td>) .</td></t<>	.350) .
MAR	.300	9470	.310 <		.460		.290		.300		.270	
MAY	.340	200	.280 <		.320		.300			FERMIN.	-	
JUL	.280		.330 <		.270		1,200	3400.900	.340	<t< td=""><td>.290</td><td>)</td></t<>	.290)
SEP	.410		.350 <		.360		.360	<t< td=""><td></td><td>229.3111</td><td>1997</td><td>40</td></t<>		229.3111	1997	40
NOV	.390		.320 <		.330		.320		.330	<1	.300) .
/ANADIUM (UG	/L)			DET'N LIMIT =	0.05	GUIDEL	INE = N	I/A			
JAN	.450	<1	.530		.440	<1	.490	<t< td=""><td>.540</td><td></td><td>.480</td><td>) 4</td></t<>	.540		.480) 4
MAR	.380		.670		.670		.650	200 E1	.720		.680	
MAY	.280		.510		.530		.520				74 5.	
JUL	.240		.410 <	(T	.400	<t< td=""><td>.420</td><td><t< td=""><td>.390</td><td><t< td=""><td>.400</td><td>,</td></t<></td></t<></td></t<>	.420	<t< td=""><td>.390</td><td><t< td=""><td>.400</td><td>,</td></t<></td></t<>	.390	<t< td=""><td>.400</td><td>,</td></t<>	.400	,
SEP	.300	55 (7)	.210 <		.250		.240		8797		5 T	
NOV	. 280	0.70	.150 <	298	. 120	3.37	.150	100	.140	<1	.110	
INC (UG/L)		1		DET'N LIMIT =	0.20	GUIDEL	INE = 5	000 (A3)		¥	17
MAL	12.000		.930 <	:T	4.300		2.700		31.000		.540	
MAR	8.400		2.700		32.000		2.700	-	11.000		9.800	
MAY	5.500		2.200		11.000		2.400		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		÷ .	17
JUL	4.300		3.100		8.900		6.500		24.000		2.900	į
SEP	8.700		2.800		16,000		2.500		19		•	Ý
NOV	8.000	20	2,200		11.000		2.900		23,000		2.700	ġ.

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

RAL	l	TREATED	SITE 1	36 E	SITE 2		
			STANDING	FREE FLOW	STANDING	FF	REE FLOW
	CHLORO	AROMATICS			The second of the second	8	**
HEXACHLOROE	THANE (NG/L)	DET'N LIMIT = 1.000	GUIDELINE	= 1900 (D4)		
JAN	BDL	BDL	D	BDL		2 3	BDL
MAR	BDL	BDL	5	BDL			BDL
MAY	BOL	BOL	H 677 ₩1 3 927N	BDL	A 2		•
JUL	BDL	BDL	== •	BDL		8	BDL
SEP	BDL	BDL	**	BDL	(₩/2		
NOV	BDL	46.000	× 2	!SM	T	100	42.000

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

F	RAU	TREATED	SITE 1			SITE 2			
		¥ j	STANDING		FREE FLOW	STANDING		FREE I	FLOW
	POL	YAROMATIC HYDROCARBO	IS (PAH)						
BENZO(K)	FLUORANTHEN	(NG/L)	DET'N LIMIT =	1.	GUIDELINE	= N/A			
JAN	BDL	BDL	((a)						
MAR	BOL	BDL			A) **				
MAY.	BDL	BDL	n			= = = = = = = = = = = = = = = = = = =			
JUL	BDL	BDL			BOL		•		BDL
SEP	BDL	BDL					9		(/6)
NOV	BDL	1.000	∢ .				•		

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

WATER TREATMENT PLANT

R	WAS				TREATED		SI	TE 1			i -	SI	TE 2				
				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			s	TANDING		FREE	FLOW	S	TANDING	ì	F	REE F	LOW
		P	ESTI	CIDES	& PCB												
LPHA BHC	(NG/)				DET	I LIMIT	= 1.000		GUIDELI	IE = 700	(G)				
		4 000		*	٠,						2 000 -=					N 9	2.000
JAN		1.000				> 000					2.000 <t< td=""><td></td><td></td><td>(*)</td><td></td><td></td><td></td></t<>			(*)			
MAR		2.000				000 <			•		1.000 <t< td=""><td></td><td>25</td><td>**</td><td></td><td></td><td>2.000</td></t<>		25	**			2.000
MAY		2.000				> 000			9		2.000 <t< td=""><td></td><td>15</td><td>5.00</td><td></td><td></td><td></td></t<>		15	5.00			
JUL		1.000			2.0	> 000					BOL			•11			1.000
SEP	H 8	1.000	<t< td=""><td></td><td>2.0</td><td>> 000</td><td>0.0</td><td></td><td>•</td><td></td><td>1.000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>10</td></t<></td></t<>		2.0	> 000	0.0		•		1.000 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>10</td></t<>						10
NOV	-	2.000	<t< b=""></t<>		2.0	> 000	3		•		! SM	94		•			2.000
INDANE (NG/L)					DET	LIMIT	= 1.000		GUIDELIN	IE = 4000	(A1)				
JAN		1.000	<t< td=""><td></td><td></td><td>DL.</td><td>F 25</td><td></td><td></td><td></td><td>BDL</td><td></td><td></td><td>q</td><td></td><td></td><td>BDL</td></t<>			DL.	F 25				BDL			q			BDL
MAR		BDL	1.555.01			DL .			•		BDL	85 W		•			BDL
MAY		BDL				DL			•		BDL			•			
JUL		3.000	-T			000 <	• 5.				BDL	1 8t ⁷²		•		9	1.000
SEP			>								N 330000						1.000
		BDL		. B		DL			•	52	BDL		W 20				
NOV		BDL				DL			•		!SM						BDL
TRAZINE	(NG/L	0 6)		848		DET	LIMIT	=. 50		GUIDELIN	IE = 6000	0 (A2)				
JAN		BOL				DL											(*
MAR	10	0.000	<t< td=""><td></td><td>150.0</td><td></td><td>1,77</td><td></td><td>2</td><td></td><td>12075</td><td></td><td>8</td><td></td><td>220</td><td></td><td>•</td></t<>		150.0		1,77		2		12075		8		220		•
MAY	0.2	!LA	10			DL			2		1 1 2 1		ra e	9	50		
JUL		BDL				DL.			8 2	0.0				5 8			25
SEP		BDL				DL					© #/A						- 100
NOV	15	0.000	~T		140.0						.			₹ 6			3.

TABLE 5
DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

WATER TREATMENT PLANT

R/	W	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
PHENOLICS	PHENOLI (UG/L)	cs	DET'N LIMIT = .20	GUIDELINE = 2	2 (A4)	. v
MAL	1.600	2.800	n		•	9 Mgr 24
MAR	BOL	.600 <t< td=""><td></td><td></td><td></td><td>y.</td></t<>				y .
MAY	BOL	.400 <t< td=""><td></td><td>**** 7 □ •••</td><td></td><td></td></t<>		**** 7 □ •••		
JUL	.600 <t< td=""><td>1.400</td><td>0€</td><td>: :</td><td>± 5 ⁸</td><td>* * * * * * * * * * * * * * * * * * *</td></t<>	1.400	0€	: :	± 5 ⁸	* * * * * * * * * * * * * * * * * * *
SEP	.600 <t< td=""><td>1.000 <t< td=""><td></td><td>* * 5</td><td>e v</td><td></td></t<></td></t<>	1.000 <t< td=""><td></td><td>* * 5</td><td>e v</td><td></td></t<>		* * 5	e v	
NOV	.600 <t< td=""><td>BOL</td><td></td><td>N 2 2</td><td></td><td>9</td></t<>	BOL		N 2 2		9

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

WATER TREATMENT PLANT

x 8	RAW	*		TREATED		SITE 1			4		SITE 2			
		•••••				STANDING		FREE	FLOW		STANDING	ì 	FREE	FLOW
	/IIC /I	VOLAT	LES			DET'N LIMIT	- 0.05		CHARLI THE					*
BENZENE	(UG/L)				DEL.M CIMIL	= 0.05	4 8 K	GUIDELINE	- ,	(AI)			
JAN		BDL		BD			•		BDL			* ×		BDL
MAR		BDL		.10	0 <t< td=""><td></td><td>•</td><td></td><td>!U</td><td></td><td></td><td>S</td><td></td><td>BOL</td></t<>		•		!U			S		BOL
MAY		BDL		BD					.050 <t< td=""><td></td><td></td><td>(4)</td><td></td><td>3000</td></t<>			(4)		3000
JUL		BOL		BD			•		BDL			V.		BDL
SEP		.050 <t< td=""><td></td><td>BD</td><td></td><td></td><td>•</td><td></td><td>.050 <t< td=""><td></td><td>8</td><td>· ·</td><td></td><td></td></t<></td></t<>		BD			•		.050 <t< td=""><td></td><td>8</td><td>· ·</td><td></td><td></td></t<>		8	· ·		
NOV		BDL		BD	L 				BDL			•		BDL
TOLUENE	(UG/L)				DET'N LIMIT	= 0.05		GUIDELINE	= 24	(A3)			
JAN		BDL	S. 12	.05	0 <t< td=""><td>8 0 0</td><td>- g</td><td>s</td><td>BOL</td><td></td><td></td><td>i5 (•) </td><td></td><td>BDL</td></t<>	8 0 0	- g	s	BOL			i5 (•)		BDL
MAR		BDL		BD	L	* 3	10 C		!U			x•: ±==		BDL
MAY		BDL		BD	E	> 3			.100 <t< td=""><td></td><td></td><td>16</td><td></td><td></td></t<>			16		
JUL		BDL		BD			•		.150 <t< td=""><td></td><td></td><td>•</td><td></td><td>BDL</td></t<>			•		BDL
SEP		.050 <t< td=""><td></td><td>.05</td><td>T> 0</td><td>U*)</td><td>•</td><td></td><td>BDL</td><td></td><td></td><td></td><td></td><td>- F</td></t<>		.05	T> 0	U*)	•		BDL					- F
NOV		BDL		BD	_	V	M1		.150 <t< td=""><td>Service and the</td><td></td><td></td><td></td><td>.150 <1</td></t<>	Service and the				.150 <1
THYLBEA	ZENE (L	JG/L)	ig.	=	DET'N LIMIT :	0.05		GUIDELINE	= 2.4	(A3)			2
JAN		BDL		BD	19			r.	BDL		: * · · ·	1047		BDL
MAR		BDL) <t< td=""><td>A 0 8 4</td><td>n</td><td></td><td>!U</td><td></td><td></td><td>24 d</td><td></td><td>.100 <1</td></t<>	A 0 8 4	n		!U			24 d		.100 <1
MAY		BDL			7> (M	SI V	10	.050 <t< td=""><td></td><td></td><td>SE 1</td><td></td><td>A</td></t<>			SE 1		A
JUL		BDL		BDI			4). Si	**	BDL	100		100 Na		BDL
SEP		BDL		BDI	10.00		n 53	100	BDL	*				1777 HT
NOV		BDL		BDI	- 10 -		K	20	.050 <t< td=""><td></td><td></td><td>3.</td><td></td><td>.350 <1</td></t<>			3 .		.350 <1
-XYLENE	(UG/L)				DET'N LIMIT :	0.10		GUIDELINE	= 300	(A3*)			
JAN		BDL		BDI		9 w			BDL		8 13	, w		BDL
MAR	580	BDL		BDI			r o		!U				22	BDL
MAY		BDL		BDI		a x"			BDL					IA 1757
JUL		BDL		BDI			e a		BDL			주) - 본	8	BDL
SEP		BDL		BDI		X	50.		BDL			350 E		
NOV		BDL		BDI			10 ₀		BDL	• 7		•		1.300
-XYLENE	(UG/L)				DET'N LIMIT =	0.05	•••••	GUIDELINE	= 300	(A3*)			
JAN	8	BDL		BDI			8		BDL					BDL
MAR		BOL		BDI					!U					BDL
MAY		BOL		BDI					BDL			(#X)		BUL
JUL		BDL .		BDI			200	290	BDL		8.	•.		BDL
SEP		BDL		BOL		9		3. 6	BDL					BUL
NOV		BDL		BOL					BDL		20	•		.750
TYRENE	(UG/L)	.e.	94 94		DET'N LIMIT =	0.05		GUIDELINE	= 100	(01)	20 70		
JAN		BDL		BDL	•31				BDL					BDL
MAR		BDL		.100					!U					.050 <1
MAY		BDL		BDL					.050 <t< td=""><td></td><td></td><td>•</td><td></td><td>0</td></t<>			•		0
JUL		BDL		BDL					BDL					.050 <1
SEP		BDL		BDL		·			BDL			# 1387	8.60	86
		BDL		BDL										BDL

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

WATER TREATMENT PLANT

R/	/u		TREATED	SITE 1			SITE 2	
TO BE 12 TO BE DO ON WE SHARE WE WANTED	4.3	ANTIGORIAN TOTAL CONTROL	7	STANDING		FREE FLOW	STANDING	FREE FLOW
CHLOROFORM	(UG/L)		DET'N LIMIT	= 0.10	GUIDELINE	= 350 (A1+)	1 W
JAN	BOL		7.900		09	8.100	8 2	9.200
MAR	BOL		7.500		루 왕	!!!		7.800
MAY	BDL		7.700	×	750	8.800		100
JUL	BOL	M 54	8.500		•	7.200		8.300
SEP	BOL		26.000		•:	12.200	•	0.500
NOV	BOL		7.100	♥ 50	•	9.300	* 	8.900
111, TRICH	ILOROETHANE	(UG/L)	DET'N LIMIT :	= 0.02	GUIDELINE	= 200 (D1)	
MAL	BDL		BDL	HEX.	•	BDL	-: ••••••••••••••••••••••••••••••••••••	80L
MAR	BDL		BOL		•	!U		BDL
MAY	BOL	*	BOL	489	_	.020 <t< td=""><td>.170</td><td>Value of the second</td></t<>	.170	Value of the second
JUL	BDL		BOL			BDL	7000	BDL
SEP	BDL		BDL		<u></u>	BDL	0.08	
NOV	BDL		BDL			BOL	AM: 1700	BDL
CARBON TET	RACHLORIDE	(UG/L)	DET'N LIMIT :	= 0.20	GUIDELINE	= 5 (A1)	
JAN	BDL		BDL		•	BOL	-	BDL
MAR	BDL		BDL			!U	V=1	BDL
MAY	BDL		BOL	77		BDL	X ₁₂	n
JUL	BDL		BDL			BDL .		BDL
SEP	BOL		BOL	M	M.	BDL	(S)	-
NOV	BOL		BDL	18		.200 <t< td=""><td>37 / ₩1 a (#)</td><td>.200 <t< td=""></t<></td></t<>	37 / ₩1 a (#)	.200 <t< td=""></t<>
DICHLOROBR	OMOMETHANE	(UG/L)	DET'N LIMIT :	0.05	GUIDELINE	= 350 (A1+)	
JAN	BDL :		7.050			7.250		7,900
			6.900		•	1.250		6.900
MAR .	BDL	100				7.250	17/1	0.700
MAY	BDL		6.900		•)[•	6.500
JUL	BDL		7.100		M.	6.200	- • • • • • • • • • • • • • • • • • • •	6.500
SEP	BDL		13.550		N 120 E	8.150		7 050
NOV	BDL		6.900			7.150		7.050
CHLORODIBR	OMOMETHANE	(UG/L)	DET'N LIMIT =	= 0.10	GUIDELINE	= 350 (A1+)	
JAN	BDL		3.300	6		3.600	€ (6	4.000
MAR	BDL		3.000		•	. IU	•	3.100
MAY	BDL		3.200	55		3.500		14
JUL	BDL		2.700	11	•	2.900	4	2.800
SEP	BDL		5.700		200	4.000		may was a management of the second
NOV	BDL		4.100			2.800	· · · · · · · · · · · · · · · · · · ·	3.400
T-CHLOROET	HYLENE (UG/	'L)	DET'N LIMIT =	0.05	GUIDELII	NE = 5 (D1)	
JAN	BDL 1		BOL		E	BOL	€	BOL
- MAR	BOL		BDL		e7 18	!U	21 .	BDL
MAY	BDL		BDL		Y25	BDL		*
JUL	BOL	V	BDL	141 S	23	BDL	U 11 020	BDL
SEP	BOL		BDL	= 5	37.	.050 <t< td=""><td></td><td></td></t<>		
NOV			BDL	i ,				BDL
MOA	BDL		BUL	:	E.	BDL		BUL

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM SOUTH PEEL (LAKEVIEW) WSS 1990

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAL	li s	TREATED	SITE 1		SITE 2	12 12
			STANDING	FREE FLOW	STAND I NG	FREE FLOW
BROMOFORM ((UG/L)		DET'N LIMIT = 0.20	GUIDELINE =	350 (A1+)	=
JAN	BDL	.400 <t< td=""><td>) (**) (**) (**) (**) (**) (**) (**) (*</td><td>.600 <t< td=""><td>s do</td><td>.600 <t< td=""></t<></td></t<></td></t<>) (**) (**) (**) (**) (**) (**) (**) (*	.600 <t< td=""><td>s do</td><td>.600 <t< td=""></t<></td></t<>	s do	.600 <t< td=""></t<>
MAR	BDL	.400 <t< td=""><td>5: # 2</td><td>ĮŪ</td><td></td><td>.400 <t< td=""></t<></td></t<>	5: # 2	ĮŪ		.400 <t< td=""></t<>
MAY	BDL	.400 <t< td=""><td></td><td>.400 <t< td=""><td></td><td>#MS-2555 T</td></t<></td></t<>		.400 <t< td=""><td></td><td>#MS-2555 T</td></t<>		#MS-2555 T
JUL-	BDL	.400 <t< td=""><td>2</td><td>.400 <t< td=""><td>2 2</td><td>.400 <t< td=""></t<></td></t<></td></t<>	2	.400 <t< td=""><td>2 2</td><td>.400 <t< td=""></t<></td></t<>	2 2	.400 <t< td=""></t<>
SEP	BDL	.600 <t< td=""><td></td><td>.400 <t< td=""><td></td><td></td></t<></td></t<>		.400 <t< td=""><td></td><td></td></t<>		
NOV	BOL	.400 <t< td=""><td></td><td>.200 <t< td=""><td></td><td>.400 <t< td=""></t<></td></t<></td></t<>		.200 <t< td=""><td></td><td>.400 <t< td=""></t<></td></t<>		.400 <t< td=""></t<>
1,4 DICHLOR	OBENZENE (UG/L) b _j	DET'N LIMIT = 0.10	GUIDELINE =	5 (A1)	1 W
JAN	BDL	BOL		.100 <t< td=""><td># 05 P</td><td>BDL</td></t<>	# 05 P	BDL
MAR	BDL	BDL		!U		BDL
MAY	BDL	BDL	S .	BDL	•	
JUL	BDL	BDL		.100 <t< td=""><td></td><td>.300 <t< td=""></t<></td></t<>		.300 <t< td=""></t<>
SEP	BDL	BDL		.200 <t< td=""><td></td><td>•</td></t<>		•
NOV	BDL	BDL	¥ (¥*)	BDL		BDL
TOTL TRIHAL	OMETHANES (UG/L)	DET'N LIMIT = 0.50	GUIDELINE =	350 (A1)	
JAN	BDL	18.750		19.450	•	21.600
MAR	BDL	17.750	V-427	!U		18.200
MAY	BDL	17.800	1000 1000	19.900		• 4
JUL	BDL	18.700	H 72	16.700	98.0	18.000
SEP	BDL	45.800	360	24.750		
NOV	BDL	18.550	2 2	19.450	9	19.600

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

BACTERIOLOGICAL FECAL COLIFORN MEMBRANE FILTRATION CT/100ML O 0 (A1) STANDARD PLATE COUNT MEMBRANE FILT. CT/ML O 500/ML (A3) TOTAL COLIFORN MEMBRANE FILT. CT/ML O 500/ML (A3) TOTAL COLIFORN MEMBRANE FILTRATION CT/100ML O N/A TOTAL COLIFORN MEMBRANE FILTRATION CT/100ML O 5/100ML (A1) CHEMISTRY (FLD) FIELD COMBINED CHLORINE RESIDUAL MG/L O N/A FIELD TOTAL CHLORINE RESIDUAL MG/L O N/A FIELD FIRE CHLORINE RESIDUAL MG/L O N/A FIELD PH DINSILESS N/A 6.5-8.5 (A3) FIELD TURBIDITY FTU M/A 1.0 (A1) CHEMISTRY (LAB) ALKALINITY MG/L O 0.002 O.05 (F2) CHLORIDE CHLORINE CHLORIDE	CONTRACTOR	UNIT	DETECTION	CUIDEL INE	
FECAL COLIFORN MEMBRANE FILTRATION STANDARD PLATE COUNT MEMBRANE FILT. CT/ML	AND		LIMIT	GOIDELINE	
FECAL COLIFORN MEMBRANE FILTRATION STANDARD PLATE COUNT MEMBRANE FILT. CT/ML					
STANDARD PLATE COUNT MEMBRANE FILT. CT/ML	BACTERIOLOGICAL				
TOTAL COLIFORM BACKGROUND MF TOTAL COLIFORM MEMBRANE FILTRATION CHEMISTRY (FLD) FIELD COMBINED CHLORINE RESIDUAL FIELD TOTAL CHLORINE RESIDUAL FIELD FREE CHLORINE RESIDUAL FIELD FREE CHLORINE RESIDUAL FIELD TOTAL CHLORINE RESIDUAL FIELD THOMASIESS M/A 6.5-8.5 (A3) FIELD TURBIDITY FTU M/A 1.0 (A1) CHEMISTRY (LAB) AMMONIUM TOTAL MG/L CALICIUM MG/L	FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML			
TOTAL COLIFORM MEMBRANE FILTRATION CHEMISTRY (FLD) FIELD COMBINED CHLORINE RESIDUAL FIELD TOTAL CHLORINE RESIDUAL FIELD TOTAL CHLORINE RESIDUAL FIELD TOTAL CHLORINE RESIDUAL FIELD PH FIELD TEMPERATURE DEG.C JAA FIELD PH FIELD TEMPERATURE DEG.C JAA FIELD TURBIDITY FTU CHEMISTRY (LAB) ALKALINITY MG/L JC.2 JO.002 JC.5 FIELD TURBIDITY CALCIUM MG/L MG/L MG/L MG/L JC.2 JO.005 F(F2) CALCIUM MG/L CALCIUM MG/L CALCIUM MG/L CALCIUM MG/L MG/L MG/L JC.2 JO.005 F(F2) CALCIUM MG/L CALCIUM MG/L CALCIUM MG/L MG/L MG/L MG/L JC.2 JO.005 F(F2) CALCIUM MG/L CALCIUM MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/					3)
CHEMISTRY (FLD) FIELD COMBINED CHLORINE RESIDUAL MG/L 0					_
FIELD COMBINED CHLORINE RESIDUAL	TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100ML (A	1)
FIELD TOTAL CHLORINE RESIDUAL	CHEMISTRY (FLD)				
FIELD FREE CHLORINE RESIDUAL FIELD PH FIELD PH FIELD PH FIELD PH FIELD PH FIELD TUMPERATURE DEG.C FIELD TUMPERATURE DEG.C FIELD TUMPERATURE FIU CHEMISTRY (LAB) ALKALINITY AMMORIUM TOTAL MG/L CALCIUM	FIELD COMBINED CHLORINE RESIDUAL				
FIELD PH					
FIELD TEMPERATURE FIELD TURBIDITY FIU RICHMISTRY (LAB) ALKALINITY AMOUNTUM TOTAL BEGLE B	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	NO. 1867 TALES TO			
FIELD TURBIDITY	TARENTHERE AND				
CHEMISTRY (LAB) ALKALINITY	에서 프로마이어 하는 그 자꾸 시간을 하면 하면 하면 함께 보는 사람들이 되었다.			Fig. 20 (1977) 12-10-10	2000
ALKALINITY AMMONIUM TOTAL MG/L CALCIUM TCU CALCIUM MG/L CALCIUM TCU CALCIUM TCU CALCIUM TCU CALCIUM TCU CALCIUM MG/L	FIELD TURBIDITY	FTU	N/A	1.0 (A	1)
AMMONIUM TOTAL	CHEMISTRY (LAB)				
CALCIUM	ALKALINITY				
CHLORIDE COLOUR TCU COLOUR COLOUR COLOUR TCU COLOUR COL	AMMONIUM TOTAL	100 to 200 to 20			-
TCU		315 (CEC 555)			
CONDUCTIVITY CYANIDE MG/L DISSOLVED ORGANIC CARBON MG/L DISSOLVED ORGANIC CARBON MG/L DISSOLVED ORGANIC CARBON MG/L HARDNESS MG/L LO.1 2.4 (A1) HARDNESS MG/L LANGELIERS INDEX MMG/L NITRITE MG/L NITRITE MG/L NITROGEN TOTAL KJELDAHL MG/L NITROGEN TOTAL KJELDAHL MG/L NITROGEN TOTAL MG/L NITROGEN TOTAL MG/L NITROGEN TOTAL MG/L NO005 M/A PHOSPHORUS FIL REACT MG/L PHOSPHORUS TOTAL MG/L SULPHATE MG/L NITRATES MG/L MG/L NITRATES MG/L MG/L NO005 M/A SULPHATE MG/L NO05 M/A MG/L NOO5 M/A MG/L NOO6 M/A MC/A MC/A MC/A MC/A MC/A MC/A MC/A		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
CYANIDE	9			and the second s	
DISSOLVED ORGANIC CARBON		() () () () () () () () () ()		400.000	
FLUORIDE HARDNESS MG/L HARDNESS MG/L D.5 80-100 (A4) LANGELIERS INDEX DMNSLESS N/A MAGNESIUM MG/L NITRITE MG/L NITROGEN TOTAL KJELDAHL PH DMNSLESS N/A PHOSPHORUS FIL REACT PHOSPHORUS TOTAL SULPHATE MG/L SULPHATE		(5.4 to 5.4 to 5			4.00
NARDNESS	사용하다 (TING TOTAL TRANSPORT TRANSPORT (AT MANUAL METER) - (MINISTER METERS) (MINISTER METERS)	500 Marie 1980 A C C C C C C C C C C C C C C C C C C			
LANGELIERS INDEX DMNSLESS M/A M/A MAGNESIUM MG/L 0.1 30.0 (F2)	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	STREET, STREET	0.01		500
MAGNESIUM MG/L 0.1 30.0 (F2) NITRITE MG/L 0.001 1.0 (A1) NITROGEN TOTAL KJELDAHL MG/L 0.02 N/A PHOSPHORUS FIL REACT MG/L 0.0005 M/A PHOSPHORUS TOTAL MG/L 0.002 0.4 (F2) SODIUM MG/L 0.2 200 (A4) SULPHATE MG/L 0.2 500 (A3) TOTAL NITRATES MG/L 0.05 10.0 (A1) CHLOROAROMATICS TU 0.05 10.0 (A1) 123 TRICHLOROBENZENE NG/L 1.0 N/A 124 TRICHLOROBENZENE NG/L 1.0 N/A 125 TRICHLOROBENZENE <td< td=""><td></td><td>(A.) (1897) Trigged passes are according</td><td></td><td></td><td>• /</td></td<>		(A.) (1897) Trigged passes are according			• /
NITRITE		Particular and Control of the Control			2)
NITROGEN TOTAL KJELDAHL MG/L D.02 N/A PH DMNSLESS N/A 6.5-8.5 (A4) PHOSPHORUS FIL REACT MG/L D.0005 N/A O.0005 N/A O.0005 N/A O.0005 N/A O.0005 N/A O.0005 O.4 (F2) O.0005 O.4 (F2) O.0005 O.4 O.0005 O.4 O.0005 O.4 O.0005 O.4 O.0005 O.4 O.0005		4,000			10000
DMNSLESS		0 E 2 C 7 C 2	200 PMI	1 30 and 20 and	
PHOSPHORUS TOTAL MG/L 0.002 0.4 (F2)				6.5-8.5 (A	4)
SODIUM	PHOSPHORUS FIL REACT	MG/L	0.0005	N/A	
SULPHATE	PHOSPHORUS TOTAL	MG/L	0.002	0.4 (F	2)
TOTAL NITRATES MG/L 0.005 10.0 (A1) TURBIDITY FTU 0.05 1.0 (A1) CHLOROAROMATICS 123 TRICHLOROBENZENE NG/L 5.0 N/A 1234 TETRACHLOROBENZENE NG/L 1.0 N/A 1245 TETRACHLOROBENZENE NG/L 5.0 10000 (1) 1245-TETRACHLOROBENZENE NG/L 5.0 N/A 125 TRICHLOROBENZENE NG/L 5.0 N/A 236 TRICHLOROTOLUENE NG/L 5.0 N/A 245 TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A 1 HEXACHLOROBENZENE NG/L 1.0 10 (C1) 1 HEXACHLOROBENZENE NG/L 1.0 450 (D4) 1 HEXACHLOROSTYRENE NG/L 1.0 1900 (D4) 1 HEXACHLOROSTYRENE NG/L 1.0 74000 (D4) 1 CHLOROPHENOLS NG/L 1.0 74000 (D4)	SODIUM	MG/L	0.2		
TURBIDITY FTU 0.05 1.0 (A1) CHLOROAROMATICS 123 TRICHLOROBENZENE NG/L 5.0 N/A 1234 TETRACHLOROBENZENE NG/L 1.0 N/A 1235 TETRACHLOROBENZENE NG/L 1.0 N/A 124 TRICHLOROBENZENE NG/L 5.0 10000 (I) 1245-TETRACHLOROBENZENE NG/L 5.0 10000 (I) 135 TRICHLOROBENZENE NG/L 5.0 N/A 236 TRICHLOROTOLUENE NG/L 5.0 N/A 245 TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A 1.0 10 (C1) 1.0 N/A	SULPHATE				300
CHLOROAROMATICS 123 TRICHLOROBENZENE NG/L 5.0 N/A 1234 TETRACHLOROBENZENE NG/L 1.0 N/A 1235 TETRACHLOROBENZENE NG/L 1.0 N/A 124 TRICHLOROBENZENE NG/L 5.0 10000 (1) 1245-TETRACHLOROBENZENE NG/L 1.0 38000 (D4) 135 TRICHLOROBENZENE NG/L 5.0 N/A 236 TRICHLOROTOLUENE NG/L 5.0 N/A 245 TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A HEXACHLOROBENZENE NG/L 5.0 N/A HEXACHLOROBENZENE NG/L 5.0 N/A HEXACHLOROBUTADIENE NG/L 1.0 10 (C1) HEXACHLOROBUTADIENE NG/L 1.0 450 (D4) HEXACHLOROCYCLOPENTADIENE NG/L 5.0 206000 (D4) HEXACHLOROSTYRENE NG/L 1.0 1900 (D4) OCTACHLOROSTYRENE NG/L 1.0 N/A PENTACHLOROBENZENE NG/L 1.0 74000 (D4) CHLOROPHENOLS 234 TRICHLOROPHENOL NG/L 100.0 N/A 2345 TETRACHLOROPHENOL NG/L 20.0 N/A					
123 TRICHLOROBENZENE NG/L 5.0 N/A 1234 TETRACHLOROBENZENE NG/L 1.0 N/A 1235 TETRACHLOROBENZENE NG/L 1.0 N/A 124 TRICHLOROBENZENE NG/L 5.0 10000 (1) 1245-TETRACHLOROBENZENE NG/L 1.0 38000 (D4) 135 TRICHLOROBENZENE NG/L 5.0 N/A 236 TRICHLOROTOLUENE NG/L 5.0 N/A 245 TRICHLOROTOLUENE NG/L 5.0 N/A 426A TRICHLOROTOLUENE NG/L 5.0 N/A HEXACHLOROBENZENE NG/L 1.0 10 (C1) HEXACHLOROBENZENE NG/L 1.0 450 (D4) HEXACHLOROCYCLOPENTADIENE NG/L 5.0 206000 (D4) HEXACHLOROSTYRENE NG/L 1.0 1900 (D4) OCTACHLOROSTYRENE NG/L 1.0 74000 (D4) CHLOROPHENOLS NG/L 1.0 74000 (D4) 234 TRICHLOROPHENOL NG/L 20.0 N/A	TURBIDITY	FTU	0.05	1.0 (A	1)
1234 TETRACHLOROBENZENE	CHLOROAROMATICS			2° 3	
1235 TETRACHLOROBENZENE	123 TRICHLOROBENZENE	NG/L			
124 TRICHLOROBENZENE NG/L 5.0 10000 (1) 1245-TETRACHLOROBENZENE NG/L 1.0 38000 (D4) 135 TRICHLOROBENZENE NG/L 5.0 N/A 236 TRICHLOROTOLUENE NG/L 5.0 N/A 245 TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A HEXACHLOROBENZENE NG/L 1.0 10 (C1) HEXACHLOROBUTADIENE NG/L 1.0 450 (D4) HEXACHLOROCYCLOPENTADIENE NG/L 5.0 206000 (D4) HEXACHLOROSTYRENE NG/L 1.0 1900 (D4) OCTACHLOROSTYRENE NG/L 1.0 N/A PENTACHLOROBENZENE NG/L 1.0 74000 (D4) CHLOROPHENOLS NG/L 1.0 N/A				200000000000000000000000000000000000000	
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135 TRICHLOROBENZENE NG/L 5.0 N/A 236 TRICHLOROTOLUENE NG/L 5.0 N/A 245 TRICHLOROTOLUENE NG/L 5.0 N/A 26A TRICHLOROTOLUENE NG/L 5.0 N/A HEXACHLOROBENZENE NG/L 1.0 10 (C1) HEXACHLOROBUTADIENE NG/L 1.0 450 (D4) HEXACHLOROCYCLOPENTADIENE NG/L 5.0 2060000 (D4) HEXACHLOROETHANE NG/L 1.0 1900 (D4) OCTACHLOROSTYRENE NG/L 1.0 N/A PENTACHLOROBENZENE NG/L 1.0 74000 (D4) CHLOROPHENOLS NG/L 100.0 N/A 234 TRICHLOROPHENOL NG/L 100.0 N/A 2345 TETRACHLOROPHENOL NG/L 20.0 N/A		1000			
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26A TRICHLOROTOLUENE NG/L 5.0 N/A HEXACHLOROBENZENE NG/L 1.0 10 (C1) HEXACHLOROBUTADIENE NG/L 1.0 450 (D4) HEXACHLOROCYCLOPENTADIENE NG/L 5.0 206000 (D4) HEXACHLOROETHANE NG/L 1.0 1900 (D4) OCTACHLOROSTYRENE NG/L 1.0 N/A PENTACHLOROBENZENE NG/L 1.0 74000 (D4) CHLOROPHENOLS NG/L 100.0 N/A 234 TRICHLOROPHENOL NG/L 100.0 N/A 2345 TETRACHLOROPHENOL NG/L 20.0 N/A	H 프리크 (전 2) - 프로젝트 (전 2) 라마 (전 2) 프로젝트 (전 2) 전 2 (전 2) 프로젝트 (1207		2 PER CONT.	
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2345 TETRACHLOROPHENOL NG/L 20.0 N/A	234 TRICHLOROPHENOL	NG/L	100.0	N/A	
2356 TETRACHLOROPHENOL NG/L 10.0 N/A		T (A) (1 - 3 A) (1 - 4 A)	20.0		
			10.0	N/A	

SCAN/PARAMETER	UNIT	DETECTION LIMIT	GUIDELINE
245 TRICHLOROPHENOL 246 TRICHLOROPHENOL	NG/L NG/L	100.0	2600000 (D4) 5000 (A1)
PENTACHLOROPHENOL	NG/L	10.0	60000 (A1)
METALS			
ALUMINUM	UG/L	0.10	100 (A4)
ANTIMONY	UG/L	0.05	146 (D4)
ARSENIC BARIUM	UG/L UG/L	0.10 0.05	25 (A1) 1000 (A2)
BERYLLIUM	UG/L	0.05	6800 (D4)
BORON	UG/L	2.00	5000 (A1)
CADMIUM	UG/L	0.05	5 (A1)
CHROMIUM	UG/L UG/L	0.50 0.02	50 (A1) N/A
COPPER	UG/L	0.50	1000 (A3)
IRON	UG/L	6.00	300 (A3)
LEAD	UG/L	0.05	10 (A1)
MANGANESE MERCURY	UG/L UG/L	0.05 0.02	50 (A3) 1 (A1)
MOLYBDENUM	UG/L	0.05	N/A
NICKEL	UG/L	0.20	350 (D3)
SELENIUM SILVER	UG/L	1.00 0.05	10 (A1) 50 (A1)
STRONTIUM	UG/L UG/L	0.10	N/A
THALLIUM	UG/L	0.05	13 (D4)
TITANIUM	UG/L	0.50	N/A
URANIUM VANADIUM	UG/L UG/L	0.05	100 (A1) N/A
ZINC	UG/L	0.20	5000 (A3)
PAH			
PAN		201	
ANTHRACENE	NG/L	1.0	N/A
BENZO(A) ANTHRACENE BENZO(A) PYRENE	NG/L NG/L	20.0 5.0	N/A 10.0 (A1)
BENZO(B) CHRYSENE	NG/L	2.0	N/A
BENZO(B) FLUORANTHENE	NG/L	10.0	N/A
BENZO(E) PYRENE	NG/L	50.0	N/A
BENZO(G,H,I) PERYLENE BENZO(K) FLUORANTHENE	NG/L NG/L	20.0 1.0	N/A N/A
CHRYSENE	NG/L	50.0	N/A
CORONENE	NG/L	10.0	N/A
DIBENZO(A,H) ANTHRACENE	NG/L	10.0	N/A
DIMETHYL BENZO(A) ANTHRACENE FLUORANTHENE	NG/L NG/L	5.0 20.0	N/A 42000.0 (D4)
INDENO(1,2,3-C,D) PYRENE	NG/L	20.0	N/A
PERYLENE	NG/L	10.0	N/A
PHENANTHRENE PYRENE	NG/L	10.0 20.0	N/A
PESTICIDES & PCB	NG/L	20.0	N/A
PESTICIDES & PCB	* 8 ·		8
ALACHLOR (LASSO)	NG/L	500.0	5000 (A2)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L NG/L	1.0	700 (A1) 700 (G)
ALPHA CHLORDANE	NG/L	2.0	7000 (A1)
AMETRINE	NG/L	50.0	300000 (D3)
ATRATONE	NG/L	50.0	N/A
ATRAZINE DES ETHYL ATRAZINE	NG/L NG/L	50.0 200.0	60000 (A2) 60000 (A2)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	300 (G)
CYANAZINE (BLADEX)	NG/L	100.0	10000 (A2)
O,P-DDD	NG/L	5.0	10 (1)
DIELDRIN ENDOSULFAN 1 (THIODAN I)	NG/L NG/L	2.0	700 (A1) 74000 (D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	5.0	74000 (D4)

Security Control and Control a	CONTRACTOR OF	DETECTION	and the second
SCAN/PARAMETER	UNIT	LIMIT	GUIDELINE
ENDOSULFAN SULPHATE (THIODAN SULPHATE)	NG/L	5.0	N/A
ENDRIN	NG/L	5.0	1600 (D3)
GAMMA CHLORDANE	NG/L	2.0	7000 (A1)
HEPTACHLOR	NG/L	1.0	3000 (A1)
HEPTACHLOR EPOXIDE	NG/L	1.0	3000 (A1)
LINDANE (GAMMA BHC)	NG/L	1.0	4000 (A1)
METHOXYCHLOR	NG/L	5.0	900000 (A1)
METOLACHLOR	NG/L	500.0	50000 (A2)
METRIBUZIN (SENCOR)	NG/L	100.0	80000 (A1)
MIREX	NG/L	5.0	N/A
P.P-DDD	100000000000000000000000000000000000000	5.0	N/A
	NG/L	5.0	30000 (A1)
O,P-DDT OXYCHLORDANE	NG/L	2.0	THE LOSS MAN TO SEE A SECURIOR OF THE PERSON
PCB	NG/L	20.0	. N/A
	NG/L		3000 (A2)
PPDDE	NG/L	1.0	30000 (A1)
PPODT	NG/L	5.0	30000 (A1)
PROMETONE	NG/L	50.0	52500 (D3)
PROMETRYNE	NG/L	50.0	1000 (A2)
PROPAZINE	NG/L	50.0	700000 (D3)
SIMAZINE	NG/L	50.0	10000 (A2)
D-ETHYL SIMAZINE	NG/L	200.0	10000 (A2)
TOXAPHENE	NG/L	500.0	5000 (A1)
PHENOLICS	×		
PHENOLICS (UNFILTERED REACTIVE)	UG/L	0.2	2 (A4)
SPECIFIC PESTICIDES			
2,4 D PROPIONIC ACID	NG/L	100.	N/A
2,4,5-TRICHLOROPHENOXY ACETIC ACID	NG/L	50.	280000 (A1)
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000 (A1)
24-DICHLORORPHENOXYBUTYRIC ACID (24-DB)		200.	18000 (B3)
BUTYLATE (SUTAN)	NG/L	, 2000.	245000 (D3)
CARBARYL (SEVIN)	NG/L	200.	90000 (A1)
CARBOFURAN	NG/L	2000.	
CHLORPYRIFOS (DURSBAN)	NG/L	20.	N/A
CICP (CHLORPROPHAM)	NG/L	2000.	350000 (G)
DIALLATE	NG/L	2000.	N/A
DIAZINON	NG/L	20.	20000 (A1)
DICAMBA	NG/L	50.	120000 (A1)
DICHLOROVOS	NG/L	20.	N/A
EPTAM	NG/L	2000.	N/A
ETHION	NG/L	20.	35000 (G)
IPC	NG/L	2000.	N/A
MALATHION	NG/L	20.	190000 (A1)
METHYL PARATHION	NG/L	50.	7000 (B3)
METHYLTRITHION	NG/L	20.	N/A
MEVINPHOS	NG/L	20.	N/A
PARATHION		20.	50000 (A1)
	NG/L		
PHORATE (THINET)	NG/L	20. 2000.	2000 (A2) 140000 (D3)
PROPOXUR (BAYGON)	NG/L		
RELDAN	NG/L	20.	N/A
RONNEL	NG/L	20.	N/A
SILVEX (2,4,5-TP)	NG/L	20.	10000 (A1)
VOLATILES	10e 1	San Democra	32
1,1 DICHLOROETHANE	UG/L	0.10	N/A
1,1 DICHLOROETHYLENE	UG/L	0.10	7 (D1)
1,2 DICHLOROBENZENE	UG/L	0.05	200 (A1)
1,2 DICHLOROETHANE	UG/L	0.05	5 (A1)

SCAN/PARAMETER	UNIT	DETECTION	GUIDELINE
1,2 DICHLOROPROPANE	UG/L	0.05	5 (D1)
1,3 DICHLOROBENZENE	UG/L	0.10	3750 (D3)
1,4 DICHLOROBENZENE	UG/L	0.10	5 (A1)
111, TRICHLOROETHANE	UG/L	0.02	200 (D1)
112 TRICHLOROETHANE	UG/L	0.05	0.6 (D4)
1122 TETRACHLOROETHANE	UG/L	0.05	0.17(D4)
BENZENE	UG/L	0.05	5 (A1)
BROMOFORM	UG/L	0.20	350 (A1+)
CARBON TETRACHLORIDE	UG/L	0.20	5 (A1)
CHLOROBENZENE	UG/L	0.10	1510 (D3)
CHLOROD I BROMOMETHANE	UG/L	0.10	350 (A1+)
CHLOROFORM	UG/L	0.10	350 (A1+)
DICHLOROBROMOMETHANE	UG/L	0.05	350 (A1+)
ETHLYENE DIBROMIDE	UG/L	0.05	50 (D1)
ETHYLBENZENE	UG/L	0.05	2.4 (A3)
M-XYLENE	UG/L	0.10	300 (A3*)
METHYLENE CHLORIDE	UG/L	0.50	50 (A1)
O-XYLENE	UG/L	0.05	300 (A3*)
P-XYLENE	UG/L	0.10	300 (A3*)
STYRENE	UG/L	0.05	100 (D1)
TETRACHLOROETHYLENE	. UG/L	0.05	5 (D1)
TRANS 1,2 DICHLOROETHYLENE	UG/L '	0.10	70 (D1)
TOLUENE	UG/L	0.05	24 (A3)
TOTAL TRIHALOMETHANES	UG/L	0.50	350 (A1)
TRICHLOROETHYLENE	UG/L	0.10	50 (A1)

DRINKING WATER SURVEILLANCE PROGRAM PROGRAM DESCRIPTION

The Drinking Water Surveillance Program (DWSP) for Ontario monitors drinking water quality at municipal water supply systems. The DWSP Database Management System provides a computerized drinking water quality information system for the supplies monitored. The objectives of the program are to provide:

- immediate, reliable, current information on drinking water quality;
- a flagging mechanism for guideline exceedance;
- a definition of contaminant levels and trends;
- a comprehensive background for remedial action;
- a framework for assessment of new contaminants; and
- an indication of treatment efficiency of plant processes.

PROGRAM

The DWSP officially began in April 1986 and is designed to eventually include all municipal water supplies in Ontario. In 1990, 76 systems were being monitored. Water supply locations have been prioritized for surveillance based primarily on criteria such as population density, probability of contamination and geographical location.

An ongoing assessment of future monitoring requirements at each location will be made. Monitoring will continue at the initial locations at an appropriate level and further locations will be phased into the program as resources permit.

A major goal of the program is to collect valid water quality data in context with plant operational characteristics at the time of sampling. As soon as sufficient data have been accumulated and analyzed, both the frequency of sampling and the range of parameters may be adjusted accordingly.

Assessments are carried out at all locations prior to initial sampling, in order to acquire complete plant process and distribution system details and to designate (and retrofit if necessary) all sampling systems and locations. This ensures that the sampled water is a reflection of the water itself.

Samples are taken of raw (ambient water) and treated water at the treatment plant and of consumer's tap water in the distribution system. In order to determine possible effects of distribution on water quality, both standing and free flow water in old and new sections of the distribution system are sampled. Sampling is carried out by operational personnel who have been trained in applicable procedures.

Comprehensive standardized procedures and field test kits are supplied to sampling personnel. This ensures that samples are taken and handled according to standard protocols and that field testing will supply reliable data. All field and laboratory analyses are carried out using "approved documented procedures". Most laboratory analyses are carried out by the Ministry of Environment (MOE), Laboratory Services Branch. Radionuclides are analyzed by the Ministry of Labour.

DATA REPORTING MECHANISM

When the analytical results are transferred from the MOE laboratory into the DWSP system, printouts of the completed analyses are sent to the MOE District Officer, the appropriate operational staff and are also retained by the DWSP unit.

PROGRAM INPUTS AND OUTPUTS

There are four major inputs and four major outputs in the program.

Program Input - Plant and Distribution System Description

The system description includes plant specific non-analytical information acquired through a questionnaire and an initial plant visit. During the initial assessment of the plant and distribution system, questionnaire content is verified and missing information added. It is intended that all data be kept current with scheduled annual updates.

The Plant and Distribution System Description consists of the following seven components:

1. PROCESS COMPONENT INVENTORY

All physical and chemical processes to which the water is subjected, from the intake pipe to the consumers' tap (where possible), are documented. These include: process type, general description of physical structures, material types, sizes, and retention time for each process within the plant. The processes may be as simple as transmission or as complex as carbon adsorption.

2. TREATMENT CHEMICALS

Chemicals used in the treatment processes, their function, application point, supplier and brand-name are recorded. Chemical dosages applied on the day of sampling are recorded in DWSP.

3. PROCESS CONTROL MEASUREMENTS

Documentation of in-plant monitoring of process parameters (eg. turbidity, chlorine residuals, pH, aluminum residuals) including methods used, monitoring locations and frequency is contained in this section. Except for the recorded Field Data, in-plant monitoring results are not retained in DWSP but are retained by the water treatment plant personnel.

4. DESIGN FLOW AND RETENTION TIME

Hydraulic capacity, designed and actual, is noted here. Retention time (the time that a block of water is retained in the plant) is also noted. Maximum, minimum and average flow, as well as a record of the flow rate on the day of sampling, are recorded in DWSP.

5. DISTRIBUTION SYSTEM DESCRIPTION

This area includes the storage and transmission characteristics of the distribution system after the water leaves the plant.

6. SAMPLING SYSTEM

Each plant is assessed for its adequacy in terms of the sampling of bacteriological, organic and inorganic parameters. Prime considerations in the assessment and design of the sampling system are:

- i/ the sample is an accurate representation of the actual water condition, eg. raw water has had no chemical treatment;
- ii/ the water being sampled is not being modified by the sampling system;
- iii/ the sample tap must be in a clean area of the plant, preferably
 a lab area; and
- iv/ the sample lines must be organically inert (no plastic, ideally stainless steel).

It is imperative that the sampled water be a reflection not of the sampling system but of the water itself.

The sampling system documentation includes: origin of the water; date sampling was initiated; size, length and material type (intake,

discharge and tap); pump characteristics (model, type, capacity); and flow rate.

7. PERSONNEL

This section contains the names, addresses and phone numbers of current plant management and operational staff, distribution system management and operational staff, Medical Officer of Health and appropriate MOE personnel associated with the plant.

Program Input - Field Data

The second major input to DWSP is field data. Field data is collected at the plant and from the distribution system sites on the day of sampling. Field data consists of general operating conditions and the results of testing for field parameters. General operating conditions include chemicals used, dosages, flow and retention time on the day of sampling, as well as, monthly maximum, minimum and average flows. Field parameters include turbidity, chlorine residuals (free, combined and total), temperature and pH. These parameters are analyzed according to standardized DWSP protocols to allow for interplant comparison.

Program Input - Laboratory Analytical Data

The third major input to DWSP is Laboratory Analytical Data. Samples gathered from the raw, treated and distribution sampling sites are analyzed for the presence of approximately 180 parameters at a frequency of two to twelve times per year. Sixty-five percent of the parameters are organic. Parameters measured may have health or aesthetic implications when present in drinking water. Many of the parameters may be used in the treatment process or may be treatment by-products. Due to the nature of certain analytical instruments, parameters may be measured in a "scan" producing some results for parameters that are not on the DWSP priority list, but which may be of interest. The majority of parameters are measured on a routine basis. Those that are technically more difficult and/or costly to analyze, however, are done less frequently. These include Specific Pesticides and Chlorophenols.

Although the parameter list is extensive, additional parameters with the potential to cause health or aesthetic related problems may be added provided reliable analytical and sampling methods exist.

All laboratory generated data is derived from standardized, documented analytical protocols. The analytical method is an integral part of the data and as methods change, notation will be made and comparison data documented.

Program Input - Parameter Reference Information

The fourth major input to DWSP is Parameter Reference Information. This is a catalogue of information for each substance analyzed on DWSP. It includes parameter name and aliases, physical and chemical properties, basic toxicology, world-wide health limits, treatment methods and uses. The Parameter Reference Information is computerized and can be accessed through the Query function of the DWSP database. An example is shown in figure 1.

Program output - Query

All DWSP information is easily accessed through the Query function, therefore, anything from addresses of plant personnel to complete water quality information for a plant's water supply is instantly available. The DWSP computer system makes relatively complex inquiries manageable. A personal password allowing access into the DWSP query mode in all MOE offices is being developed by the DWSP group.

Program Output - Action Alerts

Drinking Water quality in Ontario is evaluated against provincial objectives as outlined in the Ontario Drinking Water Objectives publication. Should the reported level of a substance in treated water exceed the Ontario Drinking Water Objective, an "Action Alert" requiring resampling and confirmation is issued. This assures that operational staff, health authorities and the public are notified as soon as possible of the confirmation of an exceedance and remedial action taken. This report supplies a history of the occurrence of past exceedances at the plant plus a historical summary on the parameter of concern.

In the absence of Ontario Drinking Water Objectives, guidelines/limits from other agencies are used. The Parameter Listing System, published by MOE (ISBN 0-7729-4461-X), catalogues and keeps current guidelines for 650 parameters from agencies throughout the world. If these guidelines are exceeded, the results are flagged and evaluated by DWSP personnel. An "Action Alert" will be issued if warranted.

Program Output - Report Generation

Custom reports can be generated from DWSP to meet MOE Regional needs and to respond to public requests.

Program Output - Annual Reports

It is the practice of DWSP to produce an annual report containing analytical data along with companion plant information.

FIG.1

MOE - DRINKING WATER ASSESSMENT PROGRAM (DWSP)

PARAMETER REFERENCE INFORMATION

BENZENE	(B20	01P)	au au	VOLATILES	
CLASS:	HEALTH	METHOD: POCODO	UNIT: µg/L		
SOURCE	FROM	TO METHOD	GUIDELINE	UNIT	NOTE
CAL C	85/01		0.700	μg/L	AL
CDWG C	87/01		5.000	μg/L	MAC
EPA C	87/07		5.000	μg/L	MCL
EPAA C	80/11	# 28	6.600	μg/L	AMBIENT **
FERC C	84/05	a : a _	1.000	μg/L	MCL
WHO C	84/01		10.000	μg/L	GV

DESCRIPTION: NAME: BENZENE

CAS#: 71-43-2

MOLECULAR FORMULAE: C6H6

DETECTION LIMIT: (FOR METHOD POCODO) 0.05 µg/L

SYNONYMS: BENZOL; BENZOLE; COAL NAPHTHA; CARBON OIL (27).

CYCLOHEXATRIENE (41).

CHARACTERISTICS: COLOURLESS TO LIGHT-YELLOW, MOBILE, NON-POLAR LIQUID, OF HIGHLY REFRACTIVE NATURE,

AROMATIC ODOUR; VAPOURS BURN WITH SMOKING FLAME (30).

PROPERTIES: SOLUBILITY IN WATER: 1780-1800 mg/L AT 25C (41).

THRESHOLD ODOUR: 0.5 - 10 PPM IN WATERTHRESHOLD TASTE:

0.5 mg/L IN WATER (39).

ENVIRONMENTAL FATE: MAY BIOACCUMULATE IN LIVING ORGANISMS AND APPEARS TO ACCUMULATE IN ANIMAL TISSUES THAT EXHIBIT A HIGH LIPID CONTENT OR REPRESENT MAJOR METABOLIC SITES, SUCH AS LIVER OR BRAIN; SMALL QUANTITIES EVAPORATE FROM SOILS OR ARE DEGRADED RATHER QUICKLY (80).

SOURCES: COMMERCIAL: PETROLEUM REFINING; SOLVENT RECOVERY;

COAL TAR DISTILLATION (39); FOOD PROCESSING AND TANNING INDUSTRIES; COMBUSTION OF CAR EXHAUST.

ENVIRONMENTAL: POSSIBLE SOURCE IS RUNOFF.

USES: DETERGENTS; NYLON; INTERMEDIATE IN PRODUCTION OF

OTHER COMPOUNDS, SUCH AS PESTICIDES; SOLVENT FOR EXTRACTION AND RECTIFICATION IN RUBBER INDUSTRY; DEGREASING AND CLEANSING AGENT; GASOLINE.

TOXICITY: RATING: 4 (VERY TOXIC).

ACUTE: IRRITATING TO MUCOUS MEMBRANES; SYMPTOMS INCLUDE RESTLESSNESS, CONVULSIONS, EXCITEMENT, DEPRESSION; DEATH MAY FOLLOW RESPIRATORY FAILURE. CHRONIC: MAY CAUSE ANAEMIA AND LEUKAEMIA (45); MUTAGENIC.

MODE OF ACTION: CHROMOABERRATION IN LYMPHOCYTE CULTURES.

CARCINOGENICITY: A KNOWN HUMAN CARCINOGEN.

REMOVAL: THE FOLLOWING PROCESSES HAVE BEEN SUCCESSFUL IN REMOVING BENZENE FROM WASTEWATER: GAC ADSORPTION, PRECIPITATION WITH ALUM AND SUBSEQUENT REMOVAL VIA SEDIMENTATION, COAGULATION AND FLOCCULATION, SOLVENT EXTRACTION, OXIDATION

ADDITIONAL PROPERTIES:

MOLECULAR WEIGHT: 78.12

MELTING POINT: 5.5°C (27).

BOILING POINT: 80.1°C (27).

SPECIFIC GRAVITY: 0.8790 AT 20°C (27).

VAPOUR PRESSURE: 100 MM AT 26.1°C (27).

HENRY'S LAW CONSTANT: 0.00555 ATM-M3/MOLE (41).

LOG OCT./WATER PARTITION COEFFICIENT: 1.95 TO 2.13

(39).

CARBON ADSORPTION: K=1.0; 1/N=1.6; R=0.97; PH=5.3

(41) SEDIMENT/WATER PARTITION COEFFICIENT: NO DATA

NOTES: EPA PRIORITY POLLUTANT.

DWSP SAMPLING GUIDELINE

i) Raw and Treated at Plant

General Chemistry -500 mL plastic bottle (PET 500)

-rinse bottle and cap with sample

water three times
-fill to 2 cm from top

Bacteriological -220 mL plastic bottle with white

seal on cap

-do not rinse bottle, preservative

has been added

-avoid touching bottle neck or

inside of cap

-fill to top of red label as marked

Metals -500 mL plastic bottle (PET 500)

-rinse bottle and cap three times

-fill to 2 cm from top

-add 10 drops nitric acid (HNO3)

(Caution: HNO3 is corrosive)

Volatiles (duplicates)

(OPOPUP)

-45 mL glass vial with septum

(teflon side must be in contact with

sample) .

-do not rinse bottle

-fill bottle completely without

bubbles

Organics

(OWOC), (OWTRI), (OAPAHX)

-1 L amber glass bottle per scan

-do not rinse bottle

-fill to 2 cm from top

-when 'special pesticides' are

requested three extra bottles

must be filled

Cyanide

-500 mL plastic bottle (PET 500)

-rinse bottle and cap three times

-fill to 2 cm from top

-add 10 drops sodium hydroxide (NaOH)

(Caution: NaOH is corrosive)

Mercury

-250 mL glass bottle

-rinse bottle and cap three times

-fill to top of label

-add 20 drops each nitric acid (HNO3) and potassium dichromate (K2Cr2O7) (Caution: HNO3&K2Cr2O7 are corrosive)

Phenols

-250 mL glass bottle

-do not rinse bottle, preservative

has been added

-fill to top of label

Radionuclides (as scheduled) -4 L plastic jug

-do not rinse, carrier added

-fill to 5 cm from top

(GC/MS - once per year) as per organic

Organic Characterization -1 L amber glass bottle; instructions

-250 mL glass bottle -do not rinse bottle

-fill completely without bubbles

Steps:

- 1. Let sampling water tap run for an adequate time to clear the sample line.
- 2. Record time of day on submission sheet.
- 3. Record temperature on submission sheet.
- 4. Fill up all bottles as per instructions.
- 5. Record chlorine residuals (free, combined and total for treated water only), turbidity and pH on submission sheet.

ii) Distribution Samples (standing water)

General Chemistry

-500 mL plastic bottle (PET 500)

-rinse bottle and cap with sample

water three times

-fill to 2 cm from top

Metals

-500 mL plastic bottle (PET 500)
-rinse bottle and cap three times
-fill to 2 cm from top
-add 10 drops nitric acid (HNO₃)
(Caution: HNO₃ is corrosive)

Steps:

- 1. Record time of day on submission sheet.
- 2. Place bucket under tap and open cold water.
- 3. Fill to predetermined volume.
- 4. After mixing the water, record the temperature on the submission sheet.
- 5. Fill general chemistry and metals bottles.
- Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.

iii) Distribution Samples (free flow)

General Chemistry	-500 mL plastic bottle (PET 500) -rinse bottle and cap with sample water three times -fill to 2 cm from top
Bacteriological	-250 mL plastic bottle with white seal on cap
	<pre>-do not rinse bottle, preservative has been added -avoid touching bottle neck or</pre>
	inside of cap -fill to top of red label as marked
T (2)	
Metals	-500 mL plastic bottle (PET 500)
	-rinse bottle and cap three times
	-fill to 2 cm from top
	-add 10 drops nitric acid HNO3
1 p	(Caution: HNO, is corrosive)

Volatiles (duplicate) (OPOPUP)

-45 mL glass vial with septum (teflon side must be in contact

with sample)

-do <u>not</u> rinse bottle, preservative

has been added

-fill bottle completely without

bubbles

Organics (OWOC) (OAPAHX) -1 L amber glass bottle per scan

-do not rinse bottle

-fill to 2 cm from top

Steps:

- 1. Record time of day on submission sheet.
- 2. Let cold water flow for five minutes.
- 3. Record temperature on submission sheet.
- 4. Fill all bottles as per instructions.
- Record chlorine residuals (free, combined and total), turbidity and pH on submission sheet.

TD South Peel (Lakeview) water supply system: annual report 1990.
1992 19369